

OPERATING INSTRUCTIONS & PARTS LISTS

MODEL No. 15 C.

SERIAL No. CJ 5665-2.

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WORKING INSTRUCTIONS GOETZ "15C" POWER FRESS WITH

AIR CLUTCH

CLUTCH PRESSURE:

Set Clutch Air Pressure at 70 lbs./ | ".

BRAKE SETTING:

Refer Drawing No. 150-366.

DATA FOR TOOL DESIGNERS			
MAXIMUM AVAILABLE	1 "	15	Tons
PRESS CAPACITY	코 "	11.2	Tons
WHEN SLIDE IS THE DISTANCE SHOWN FROM BOTTOM OF STROKE	출"	9.8	Tons
	1/2"	9.2	Tons
	5 H	9.1	Tons
STROKE OF SLIDE 14"			
SHUT HEIGHT. ADJUSTMENT UP		61"	
ADJUSTMENT OF SLIDE 2"		2"	
STROKES PER MINUTE 250			

"GOETZ" POWER PRESSES

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ATTEND TO ALL LUBRICATION BEFORE OPERATING PRESS

LUBRICATION :

The main crankshaft bearings, connecting-rod, and slide gibways are all lubricated by means of the metered oiling system and hand-operated pump on the press. The pump container should be filled with Shell "OMALA 79" oil or one of the equivalent oils listed overleaf.

Oil holes are provided for the lubrication of the clutch throwout camplate, clutch shaft and treadle mechanism, and a good medium grade oil should be regularly applied to these points. For the slide ball-connection, use Shell "MYTILUS B" or equivalent grease.

IMPORTANT :

After installing and/or after the press has been lying idle for any period due to intermittent use, the oil pump MUST be operated until oil can be seen running out of the ends of each bearing. The press may then be put into service.

When operating pump, depress the handle FULLY and allow it to return in its own time; DO NOT FORCE the pump. See that the container is KEPT FILLED with correct oil.

NORMAL WORKING CONDITIONS :

Before starting press each morning, the oil pump MUST be given one stroke to ensure a supply of lubricant to the major bearings, and thereafter the pump must be operated once every two hours when running. Subricate the ball connection daily through grease nipple at front of slide. Oil the clubal and treadle machanism recoularly.

switched off) the clutch be engaged and the press pulled ence by hand until the clide is at bottom stroke. The clutch her will then be visible at the top of the shaft and machine oil should be applied to the key and along the edges of the key

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LUBRICATION :

UNGEARED PRESSES :

Flywheels are mounted on anti-friction bearings and only require greasing every six months. Inject Shell "ALVANIA GREASE 2" or equivalent grease into nipple in hub of flywheel.

GEARED PRESSES :

The Gear Wheel is mounted on Anti Friction Bearings and these Bearings should be cleaned out and re-packed with Shell "ALVANIA GREASE 2" or equivalent every Twelve Months.

The Pinion Drive Shaft runs on Anti Priction Bearings and require grasing with Shell "ALVANIA CRIMSE 2" or equivalent every six months.

For the Gears themselves, and Ty Shell "Mytilus B" compound or equivalent grease, to the teeth at regular intervals.

	OIL		GREASE	
	Oil Pump	Ball Connection	Anti-Friction Bearings	Gear Teeth
SHELL	OMALA-79	myribus-p	ALVANIA-2	MYTILUS B
VACUUM	EP COMPOUND	SOVAREX-LO	BRB-3	SOVAREX-LO
WAK EFIELD	ALPHA 817	SPHEEROL-L	SPHEEROL_L	SPHEEROL-L

NOTE: Do not run the press continuously (with the Clutch engaged) under 'no load' conditions. i.e. when not actually stamping.

> When a press is stamping articles, the crankshaft bearings are to a great extent relieved of the weight of the flywheel (or gearwheel) which helps the oil to circulate around the bearings.

WORKING INSTRUCTIONS FOR

"GOETZ" POWER PRESSES

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ADJUSTMENTS ON PRESS

DIE SPACE :

To adjust the die space, slacken both the clamping screws on the lower end of the connecting rod, insert the tommy bar in adjusting-screw collar and adjust the slide up or down as required. Relock the adjusting screw by SECURELY TIGHTENING both clamping screws. This precaution must always be taken before tripping the press. FAILURE TO LOCK UP THE CONNECTING ROD MAY RESULT IN A STRIPPED THREAD, OR BREAKAGE.

IMPORTANT :

The adjusting-screw must never be screwed out of the connecting rod a distance greater than 2. when measured from the top of the collar to the bottom face of the connecting rod.

CAUTION :

Always pull the press over by hand when setting dies; never set with flywheel running. Make sure that all adjustments are correct by slowly turning the press a complete revolution before putting under power.

KNOCKOUT BAR :

The knockout bar must be brought into operation to eject stampings which remain in the top tool.

When the die las been set, bring the slide to its TOPMOST POSITION and addiest the ejector screws down WENLY to give the bar the requisite travel. LOCK UP the ejector screws afterwards. When carrying out this adjustment TURN THE PRESS BY HAND - DE KOT ADJUST UNDER POWER.

where the ejector is not redired on any particular job, the adjusting screws should be backed off and locked in their topmost position clear of the knockout bar.

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"GOETZ" POWER PRESSES

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SLIDE :

The slide is correctly adjusted before the press leaves our factory. When, at a later date, adjustment for wear becomes necessary, it should be carried out as follows: -

With press on top centre, disconnect the flexible oil hose on the connecting rod, place wooden packing under the slide so that the slide will not drop onto the bed, then screw the adjusting screw out of the connecting rod. Swing up the connecting rod and tie back out of the way. Now slightly slacken the front retaining setscrews on both gibs and adjust slide hard over by means of jack screws on left hand side of press to ensure that the right hand fixed gib is correctly seated, then TIGHTEN RIGHT HAND RETAINING SCREWS. Back-off jack screws and again adjust in EVENLY TOP A.D BOTTOM. The correct adjustment is reached when the slide will move slowly downward and continue to move throughout its travel, when started with a slight bump. Use a piece of timber as a lever to move the slide up and down during adjustment.

Although the slide should be set up "neatly", it must not be adjusted too tightly as no room will then be left for the oil film and the faces of the Vee-ways will become damaged.

Before re-connecting the connecting rod, TIGHTEN LEFT HAND GIB RETAINING SCREWS, LOCK UP JACK SCREWS AND AGAIN CHECK MOVEMENT OF THE SLIDE TO SEE THAT THE SETTING REMAINS UNALTERED

BRAKE :

The spring loaded brake is adjusted by means of the knurled nut thereon. Then adjusting same, sufficient pressure should be applied to prevent the slide from over running top centre after the Clutch has been dis-engaged. More pressure will, however, be required to check the slide when using heavy die buffers.

Add to the pressure according 10: DO NOT ALWAYS RUN WITH THE BRAKE SET HARD ON. Examine the adjustment periodically.

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SPARE PARTS

REFER to Assembly Drawing Provided

When ordering replacements always quote the Press Serial Number, together with the Part Number required and description of same. Such information will ensure the correct item being supplied.

DO NOT OVERLOAD THE PRESS

Before setting up a die in any press, the pressure required should be properly calculated and not just guessed.

MODEL "15C" POWER PRESS

AIR CLUTCH

15C - 13		
15C - 26	15C 13	Cap - Main Bearing
15C - 27	150 - 25	Rod - Crank
15C - 28	15C - 26	Cap - Crank Rod
15C - 29 Slide 15C - 30 Block - Gland 15C - 31 Bolt - Gland Block Draw 7C - 32 Nut - Drawbolt 15C - 33 Gib - Slide R.H. 15C - 34 Gib - Slide L.H. 15C - 35 Block - Ejector Adjusting Screw 15C - 37 Screw - Ejector Adjusting 15C - 38 Bar - Ejector 15C - 40 Leg - R.H. 15C - 41 Leg - L.H. 15C - 42 Washer - Leg Locking 15C - 59 Bar - Podger 7C - 60 Washer - Die Clamping 15C - 62 Pin - Motor Plate Pivot 15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 194 Bolt - Crank Rod Clamp 15C - 195 Bolt - Crank Rod Clamp 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	15C - 27	Screw - Slide Adjusting
15C - 30 Block - Gland 15C - 31 Bolt - Gland Block Draw 7C - 32 Nut - Drawbolt 15C - 33 Gib - Slide R.H. 15C - 34 Gib - Slide L.H. 15C - 35 Block - Ejector Adjusting Screw 15C - 37 Screw - Ejector Adjusting 15C - 38 Bar - Ejector 15C - 40 Leg - R.H. 15C - 41 Leg - L.H. 15C - 42 Washer - Leg Locking 15C - 59 Bar - Podger 7C - 60 Washer - Die Clamping 15C - 62 Pin - Notor Plate Pivot 15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 194 Bolt - Crank Rod Clamp 15C - 195 Bolt - Crank Rod Clamp 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	15C - 28	Cap - Ball Socket
To - 31 Bolt - Gland Block Draw To - 32 Nut - Drawbolt 150 - 33 Gib - Slide R.H. 150 - 34 Gib - Slide L.H. 150 - 35 Block - Ejector Adjusting Screw 150 - 37 Screw - Ejector Adjusting 150 - 38 Bar - Ejector 150 - 40 Leg - R.H. 150 - 41 Leg - L.H. 150 - 42 Washer - Leg Locking 150 - 59 Bar - Podger To - 60 Washer - Die Clamping 150 - 62 Pin - Motor Plate Pivot 150 - 106 Bush - Main Bearing 150 - 107 Bush - Crank Rod 150 - 194 Bolt - Die Clamping 150 - 195 Bolt - Crank Rod Cap 150 - 196 Bolt - Crank Rod Clamp (Special Head) 150 - 197 Bolt - Gib Clamp 150 - 198 Bolt - Ball Socket Cap	15C - 29	Slide
7C - 32	15C - 30	Block - Gland
15C - 33	15C - 31	Bolt - Gland Block Draw
15C - 34 Gib - Slide L.H. 15C - 35 Rlock - Ejector Adjusting Screw 15C - 37 Screw - Ejector Adjusting 15C - 38 Bar - Ejector 15C - 40 Leg - R.H. 15C - 41 Leg - L.H. 15C - 42 Washer - Leg Locking 15C - 59 Bar - Podger 7C - 60 Washer - Die Clamping 15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Grank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	7C - 32	Nut - Drawbolt
15C - 35	150 - 33	Gib - Slide R.H.
15C - 37 Screw - Ejector Adjusting 15C - 38 Bar - Ejector 15C - 40 Leg - R.H. 15C - 41 Leg - L.H. 15C - 42 Washer - Leg Locking 15C - 43 Rod - Leg Tie 15C - 59 Bar - Podger 7C - 60 Washer - Die Clamping 15C - 62 Pin - Notor Plate Pivot 15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 187 Bolt - Die Clamping 15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	15C - 34	Gib - Slide L.H.
15C - 38 Bar - Ejector 15C - 40 Leg - R.H. 15C - 41 Leg - L.H. 15C - 42 Washer - Leg Locking 15C - 43 Rod - Leg Tie 15C - 59 Bar - Podger 7C - 60 Washer - Die Clamping 15C - 62 Pin - Motor Plate Pivot 15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 187 Bolt - Die Clamping 15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	15C - 35	Block - Ejector Adjusting Screw
15C - 40	15C - 37	Screw - Ejector Adjusting
15C - 40	15C - 38	Bar - Ejector
15C - 41 Leg - L.H. 15C - 42 Washer - Leg Locking 15C - 43 Rod - Leg Tie 15C - 59 Bar - Podger 7C - 60 Washer - Die Clamping 15C - 62 Pin - Motor Plate Pivot 15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 187 Bolt - Die Clamping 15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	7.5 V. + 15 V	
15C - 42 Washer - Leg Locking 15C - 43 Rod - Leg Tie 15C - 59 Bar - Podger 7C - 60 Washer - Die Clamping 15C - 62 Pin - Notor Plate Pivot 15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 187 Bolt - Die Clamping 15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	150 - 40	Leg - R.H.
15C - 43 Rod - Leg Tie 15C - 59 Bar - Podger 7C - 60 Washer - Die Clamping 15C - 62 Pin - Motor Plate Pivot 15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 187 Bolt - Die Clamping 15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	15C - 41	Leg - L.H.
15C - 59 Bar - Podger 7C - 60 Washer - Die Clamping 15C - 62 Pin - Motor Plate Pivot 15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 187 Bolt - Die Clamping 15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	15C - 42	Washer - Leg Locking
70 - 60 Washer - Die Clamping 150 - 62 Pin - Motor Plate Pivot 150 - 106 Bush - Main Bearing 150 - 107 Bush - Crank Rod 150 - 187 Bolt - Die Clamping 150 - 194 Bolt - Crank Rod Cap 150 - 195 Bolt - Crank Rod Clamp (Special Head) 150 - 196 Bolt - Main Bearing Cap 150 - 197 Bolt - Gib Clamp 150 - 198 Bolt - Ball Socket Cap	150 - 43	Rod - Leg Tie
15C - 62 Pin - Motor Plate Pivot 15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 187 Bolt - Die Clamping 15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	15C - 59	Bar - Podger
15C - 106 Bush - Main Bearing 15C - 107 Bush - Crank Rod 15C - 187 Bolt - Die Clamping 15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	70 - 60	Washer - Die Clamping
15C - 107 Bush - Crank Rod 15C - 187 Bolt - Die Clamping 15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	15C - 62	Pin - Motor Plate Pivot
150 - 187 Bolt - Die Clamping 150 - 194 Bolt - Crank Rod Cap 150 - 195 Bolt - Crank Rod Clamp (Special Head) 150 - 196 Bolt - Main Bearing Cap 150 - 197 Bolt - Gib Clamp 150 - 198 Bolt - Ball Socket Cap	15C - 106	Bush - Main Bearing
15C - 194 Bolt - Crank Rod Cap 15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	15C - 107	Bush - Crank Rod
15C - 195 Bolt - Crank Rod Clamp (Special Head) 15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	150 - 187	Bolt - Die Clamping
15C - 196 Bolt - Main Bearing Cap 15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap		
15C - 197 Bolt - Gib Clamp 15C - 198 Bolt - Ball Socket Cap	15C - 195	Bolt - Crank Rod Clamp (Special Head)
15C - 198 Bolt - Ball Socket Cap		
150 - 199 Screw - Gib Adjusting	150 - 199	Screw - Gib Adjusting

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MODEL "15C" POWER PRESS

AIR CLUTCH

	Bolt - Bolster Plate (Front)
150 - 202	Bolt - Bolster Plate (Back)
250 220	Block-Support
	Strap - Support
	Gauge - Pressure
	Frame (Air Clutch)
	Crankshaft - 1-1/4" Stroke (Air Clutch)
	Plate - Motor
	Pulley - Motor
	Guard - Wedgrope
	Bracket - Wedgrope Guard Top
	Motor (Special)
15C - 308	Wedgropes (Special)
15C - 309	
15C - 310	Box - Electrical Control
150 - 311	Guard - Timing Switch
15C - 312	Sprocket - Crankshaft
150 - 313	Chain - Timing Switch
15C - 314	Shim - Timing Switch Mounting Bracket
150 - 315	Bracket - Timing Switch Mounting
150 - 316	Sprocket - Timing Switch
150 - 317	Flywheel
15C - 318	Hub - Clutch Driving
150 - 319	Washer - Crankshaft
150 - 320	Race - Flywheel
150 - 321	Seal - Flywheel Grease
	Key - Clutch Hub
	Sleeve - Flywheel Race Adjusting

PLEASE QUOTE SERIAL NUMBER OF MACHINE WHEN ORDERING SPARE PARTS.

GOETZ MELBOURNE

MODEL "15C" POWER PRESS

AIR CLUTCH

150 - 324	Plate - Flywheel Seal Retaining
150 - 325	Shim - Flywheel Race Adjusting
150 - 326	Cylinder - Air Clutch
150 - 327	Ring - Clutch Mounting
15C - 328	Piston - Air Clutch
15C - 329	Plate - Friction Clutch
150 - 330	Spring - Friction Plate Release
150 - 331	"O" Ring - Air Clutch Piston
150 - 332	Screw - Crankshaft Washer
150 - 333	Lining - Clutch
150 - 334	Seal - Clutch Rotary
150 - 335	Receiver - Air
150 - 336	Silencer - Air
15C - 337	Valve - Poppet
150 - 338	Spacer - Air Receiver
150 - 339	Valve - Safety
150 - 340	Plate - Manifold Mounting
150 - 341	Spacer - Control Box (Short)
150 - 342	Spacer - Control Box (Long)
150 - 343	Strap - Brake Release
15C - 344	Strap - Brake Pressure
15C - 345	Drum - Brake
15C - 346	Lining - Brake
15C - 347	Stud - Brake Anchor
15C - 348	
15C - 349	Bolt - Brake Spring
15C - 350	Washer - Brake Spring Inner
150 - 351	Washer - Brake Spring Outer
150 - 352	Spring - Brake Pressure
150 - 353	Piston - Brake

PLEASE QUOTE SERIAL NUMBER OF MACHINE WHEN ORDERING SPARE PARTS.

GOETZ MELBOURNE

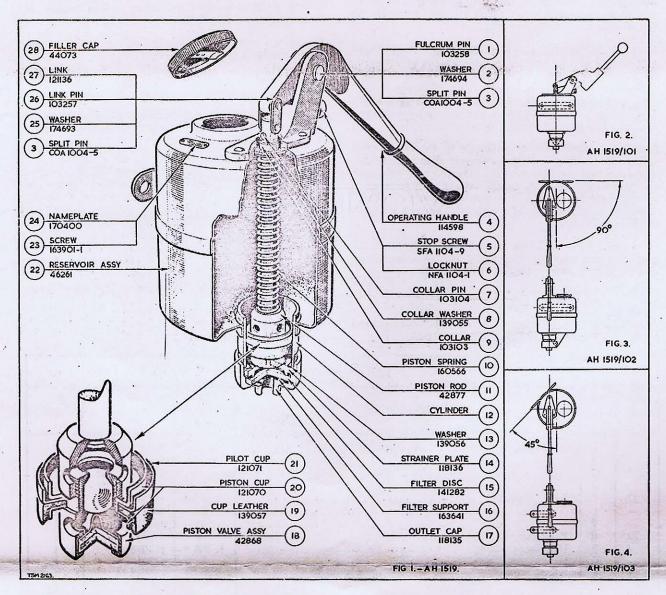
MODEL "15C" POWER PRESS

AIR CLUTCH

15C - 354	Pad - Brake Piston
15C - 355	Seal - Brake Piston
150 - 356	Circlip - Brake Piston Retaining
150 - 357	Screw - Brake Adjusting
150 - 358	Circlip - Brake Strap Retaining
150 - 359	Drum - Brake (Special)
150 - 360	Bracket - Wedgrope Guard (Back)
150 - 361	Bracket - Wedgrope Guard (Front)
15.0 m (M.0)	they - the itala denotion (therb)
110 -1112	Strap - Langella Live La (100)
150 - 364	Spacer - Manifold Mounting Strap
150 - 371	Plug - Sliding Clutch Bore
150 - 372	Block - Brake Stop
15C - 373	Plate - Baffle
150 - 374	Plate - Clutch Pressure Data
15C - 375	Nipple - Control Valve Reducing
150 - 377	Cock - Drain
400 - 391	Plug - Air Receiver
40C - 392	Washer - Air Receiver Plug
400 - 396	Valve - Main Supply Control
400 - 397	Filter - Air
400 - 402	Regulator - Air Receiver
40C - 403	Lubricator - Clutch
40C - 405	Cushion - Manifold Mounting
400 - 414	Station - Electrical Push Button
400 - 420	Switch - Timing
400 - 421	Cam - Timing Switch
40C - 423	Valve - Quick Exhaust
40C - 467	Plate - Operator Instruction
1100 HTE	
	Plate - Rotary Switch Instruction SERIAL NUMBER OF MACHINE WHEN ORDERING SPARE PARTS.

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OPERATING AND MAINTENANCE INSTRUCTIONS BIJUR SEMI-AUTOMATIC LUBRICATOR - TYPE D



The Bijur hand-operated semi-automatic lubricator Type D is a means whereby a metered volume of lubricant at a predetermined pressure can be fed into a distribution system for the purpose of lubricating machinery bearings, etc. Four models of this lubricator are available; the variations being as illustrated above. Each pump is mounted in an oil reservoir of two pints capacity, the lubricant output per stroke can be varied by adjustment of the piston stroke and all output of lubricant is passed through a filter to protect the system and bearings from dirt.

The oil outlet is threaded $\frac{1}{8}$ " B.S.P. but a connector (7606-3) is available suitable for $\frac{5}{32}$ " O.D. pipe.

DESCRIPTION

The lubricator comprises a spring-loaded manually-operated piston contained in a cylinder (12) which carries the oil outlet cap (17), filter (15) and strainer plate (14) at the bottom.

The piston rod (11) carries a check valve assembly (18) at its lower end and is connected to an operating handle (4) where it projects through the top of the reservoir. When the operating handle is depressed the piston spring is compressed and lubricant is drawn into the cylinder through the check valve (18). Immediately the handle is released, the piston spring starts to return the piston to its original position, thereby pressurizing the lubricant contained in the cylinder, closing the non-return valve and forcing the lubricant into the delivery circuit via the filter (15).

The time taken for the piston to complete its pressure stroke is entirely dependent upon the restriction to the lubricant flow in the delivery circuit; during this time, however, the lubricator will maintain a constant delivery pressure of approximately 60 lb. p.s.i. The check valve (18) prevents reverse flow and maintains the distribution system tubing full of lubricant at all times.

An adjustable stop (5) permits the output per stroke to be varied, clockwise rotation to increase and anti-clockwise to decrease, maximum delivery 24 c.c.'s per stroke.

MAINTENANCE

Daily

I. Check oil level in reservoir.

Weekly

- 2. With the lubricator feeding the system, inspect the tubes and connections for evidence of oil leaks and rectify as necessary.
- 3. Ensure that the breather hole (hollow rivet) in the filler cap is clear and free from dirt. Remove filler cap for this check, do not poke dirt from the filler cap breather into the reservoir.

Monthly

4. Inspect and clean or renew filter (15).

Three monthly

5. Free and withdraw the lubricator from its installed

position. Remove the filler cap and empty the reservoir. Unscrew the oil outlet connector (17) and remove the lower pin from the piston rod link to the operating handle. The piston rod assembly can then be removed from the reservoir through the cylinder (12). Unscrew the check valve assembly from the pist n, which action will free the piston cup leather. Blow out the check valve assembly with dry compressed air and examine the valve ball for signs of pitting. If pitted, renew the whole valve assembly. Examine the cup leather and renew it if in poor condition. Reassemble the piston and valve assembly in the reverse order to dismantling.

Prise out the filter disc (15) from the oil outlet connector (17), and clean it by washing it thoroughly in petrol until it is clean and white, or alternatively renew it. Reassemble the oil outlet connector in the following order: filter disc support (16), filter (15), one leatheroid washer (13), the strainer plate (14) (raised centre uppermost), and then the other leatheroid washer.

Examine the Oakenstrong washer (8) on the piston rod collar, and if in poor condition, renew it, then reassemble the piston rod assembly into the reservoir and refit the pin through the operating handle link. Finally screw the oil outlet connector on to the lower end of the cylinder, re-install the lubricator, refill with lubricant and replace the filler cap (28).

Operations 3, 4 and 5 may require to be performed at more frequent intervals when the lubricator is operating in a dust-laden atmosphere.

FAULT DIAGNOSIS

No lubricant issues from the oil outlet connector on the pump when the handle is operated.

Cause la

Reservoir empty or filter disc (15) clogged.

Remedy la

Refill reservoir or remove filter and clean or renew it.

Dirt on valve ball seating in check valve assembly (18).

Remedy 1b

Remove and clean by vigorously shaking in clean kerosene, or renew check valve assembly.

Piston cup leather (19) perished.

Remedy Ic

Renew piston cup leather.

Access to the filter and check valve assembly may be gained by following the instructions in para. 5 of MAINTENANCE.

Fault 2

Excessive oil consumption.

Cause 2a

Incorrect meter or regulator fitting calibration.

Remedy 2a Install fittings of correct calibration.

Defective piston valve seat (18) causing drainage of reservoir when not in use.

Remedy 2b

Renew piston valve assembly (18).

SPARE PARTS					
Fig. ref.	Item No.	Description	To fit Item	Part No.	No. off
22 	1 2 3 4 5 6 7 8 9	Bijur Semi-Automatic Lubricator—Type D Fig. 1 " " " " Fig. 2 " " " Fig. 3 " " Fig. 4 Reservoir assy. Filler cap Handle, operating Handle, operating	1 & 2 3 4 1-4 1,3 & 4	AH.1519 AH.1519/101 AH.1519/102 AH.1519/103 46261 46261/101 46261/102 44073 114598	
1 2 27 26	11 12 13 14	Pin, fulcrum Washer Link Pin, link	9 & 10 11 9 & 10 13	103258 174694 121136 103257	2 2 2
25 3	15 16	Washer Split pin	14	174693 COA.1004/5	4.
5 6 24	17 18 19	Screw, stop Locknut Nameplate	1-4 17 1-4	SFA.1104/9 NFA.1104/1 170400	
23	20 21	Screw, hammer drive	19 1-4	163901-1 42876	2
18 20 21	22 23 24	Piston valve assy. Cup, piston Pilot cup, piston	21 21 21	42868 121070 121071	2
19	25 26	Cup leather Spring, piston	21 21	139057 160566	
9 7 11	27 28 29	Collar, spring Pin, collar Rod, piston	21 21 21	103103 103104 42877	
8 17	30 31	Washer, collar Cap, outlet	21 1-4	139055 118135	
15	32 33	Filter disc Support, filter disc	31	141282 163641 118136	
14	34 35	Strainer plate	31 34	139056	2

