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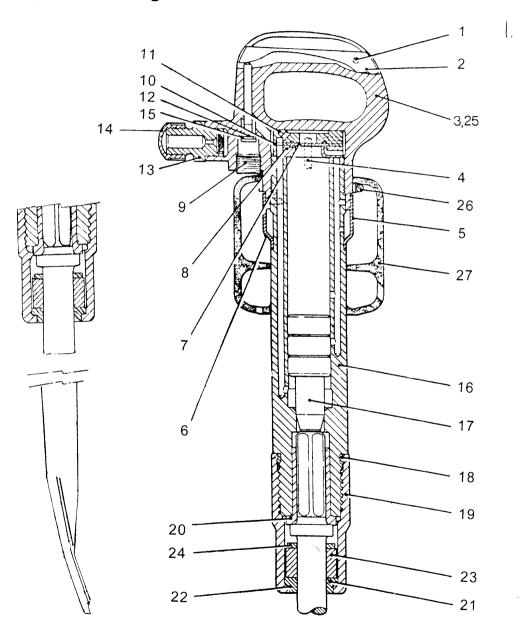
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## CPFL22F & CPFL22FS Claydiggers



## CP FL22F & CP FL22FS Claydiggers General Arrangement



## CP FL22F & CP FL22FS Claydiggers Parts List

Item No.	Part No.	Description	No. Req'd
1	F11472	Throttle Lever Pin	1
2	F11471	Throttle Lever	1
3	F012663	Handle	1
4	F12670	Dowel Pin	2
5	F12747	Exhaust Deflector	1
6	F1919	Handle Lock Pin	1
7	F12659	Valve	1
8	F12656	Lower Valve Case Lid	1
9	C59643	Throttle Plug	1
10	F12658	Valve Care	1
11	F12657	Upper Valve Case L d	1
12	F11476	Throttle Valve (Includes Item No 15)	1
13	F35769	Nipple with Gauze	1
14	5FPS700	Air Inlet Nipple Cap	1
15	110FPS2706	'O' Ring	1
16	F35273	Cylinder	1
17	F26357	Piston	1
18	F35269	Retainer Locking Ring	1
19	F35274	Spade Retainer Sleeve	1
20	F26354	Flanged Sleeve	1
21	7331	Spade Retainer Split Collar (Includes Item No. 22)	1
22	2008	Retainer Ring	1
23	F814522	Rubber Buffer	1
24	6346	Leather Buffer	1
25	F27831	Handle Comp.(Consists of Item Nos 1,2,3,9,12,13 &	14) 1
26*	P052726	Terry Clip	1
27*	F814201	Muffler Complete (Includes Item No 26 and Four	
		Screws Part No. R140630)	1

ITEMS MARKED THUS \* ARE APPLICABLE TO FL22FS ONLY

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## CP FL22F & CP FL22FS Claydiggers General Instructions

## Air Supply

For maximum efficiency it is essential to operate, the tool on a clean, dry supply of compressed air at a recommended pressure of 80 to 90 p.s.i.

Air piping should be a minimum of 1/2" hose size or larger, used with couplings of a minimum 7/16" I.D. The installation of an air line separator and filter to purify and dry the air supply and a regulator to eliminate any pressure fluctuations are recommended. These control units should be located as near to the tool as operation will allow.

#### **Operating Cautions**

Always operate CP FL22F Claydigger with a steel fitted and with the tool held down to the work, thus avoiding damage which would be caused by allowing the piston to strike against the face at bottôm of cylinder bore.

Never run a tool with a slack handle, if slackness occurs check to see that handle lock pin is in place and undamaged.

Always wear approved eye protection and safety type shoes to avoid personal injury.

### Preparing for Operation

Prior to the initial operation of the pick, disconnect the air hose and pour approximately one tablespoon of recommended oil into the tool air inlet. Blow out the air line to remove any accumulations of dirt and condensation before connecting to the tool. Connect the air line and operate the tool to allow the oil to be carried through the moving parts of the tool.

#### Lubrication

Daily, prior to operating the pick, the "Preparation for Operation" sequence should be carried out. An air line lubricator should be installed in the air line system. This should be one of an adjustable type and regulated to introduce a fine oil spray to the compressed air flow and thus ensure smooth and properly cushioned movement of the piston. This will also reduce strees in the striking and retaining parts of the tool and so allow for a long working life

Daily before using and after each four hours of service fill the oil reservoir with recommended oil. See "Recommended Lubricants".

Indications of proper lubrication are the presence of an oil mist in the exhaust air and slight traces of oil on the steel shank.

If these are not apparent, check the lubrication system if necessary, re-adjust the line lubricator.

## Loss of Power or Erratic Action

Tool failures, loss of power or erratic action may be caused by external factors. The following checks should be made:-

1. Check the compressed air pressure - a constant air pressure of 80-90 p.s.i. is required at the tool to maintain the rated performance. A drop in the air pressure may be caused by lowered compressor output, excessive drain on the air line or by using either a hose or connections of improper size and condition or a choked hose pipe or a blocked up air inlet gauze.

## CP FL22F & CP FL22FS Claydiggers General Instructions

Check for impure air - wet air tends to wash lubricant from the cylinder resulting in general rusting and corroding. Dirt in the air supply will impede valve action and cause damage to the tool.

### If these two checks prove negative :-

- Check tool lubrication disconnect the tool and pour a liberal quantity of recommended oil diluted with an equal amount of paraffin into the tool air inlet. operate the tool to flush out any condensate or dirt
- Check all mechanical parts disassemble the tool and thoroughly clean and inspect all parts. Replace worn or broken parts, relubricate and reassemle tool

### Maintenance Recommenations

Economic operation can only be achieved if the claydigger is in perfect working condition. A regularly scheduled inspection period programme should be adhered to. The correction of minor faults will prevent extensive repairs at a later date and maintain the tool at its highest efficiency.

- 1. The pick should be adequately lubricated. Refer to LUBRICATION section
- 2 Provide a constant pressure of 80-90 p s.i. of clean, dry air to enable the pick to operate efficiently.
- 3 The air line system should always be composed of hose and couplings of proper dimension and condition.
- 4. Establish and maintain an inspection and repair programme scheduled at frequent, regular intervals.

After five or six hours running tighten the handle onto the cylinder as there is a certain amout of yield to new material.

#### Spare Parts

All replacement and spare parts should be ordered through C.P. Equipment Local Dealera. When requesting these items please state tool name, size, model, letter and serial number in addition to the individual Part Number and Description of Parts.

## Disassembly & Assembly Caution

The CP FL22F Claydigger is constructed with precision built components designed to operate at fine clearances and in perfect alignment. Ensure that no parts are scored burred or distorted during assembly.

## Disassembly & Assembly Instructions

To remove the piston unscrew the handle having first removed the exhaust deflector and locking pin. The valve complete can now be removed allowing the piston to be withdrawn. Piston and valve parts should be examined for wear and replaced if necessary.

If tool sleeve must be replaced insert a drift in the cylinder, from handle end, and press tool sleeve out.

To extract a sleeve which is too badly worn, to allow the drift to grip, it will be necessary to weld a plug inside the bore for the drift to bear on.

## CP FL22F & CP FL22FS Claydiggers General Instructions

Do not attempt to remove handle without first removing exhaust deflectior and handle lock pin. Damaged handle and cylinder will result if these steps are not taken

Do not attempt to do away with locking device by overtightening the handle on the cylinder. Undue strain on the threaded piston will cause it to break

### Spade & Retainer Assembly 1

- 1 Place spade retainer sleeve (19) over spade.
- Place split collar (21) over stem of spade, with small end towards blade. Lock split collar together with retaining ring (22).
- 3 Place rubber buffer (23) on shank, forcing it over collar by inserting a screwdriver and rolling buffer over collar.
- 4 If leather buffer (24) has not been split, make one cut from bore to periphery. Place buffer around stem between collar and rubber buffer (23)
- 5 Insert shank in cylinder and screw spade retaner sleeve (19) on cylinder until locked in position by retaining locking ring (18).

## **Safety Recommendations**

- The operator should keep his hands off the trigger or throttle until he is ready to start the tool.
- 2. The operator should keep both feet on the ground and maintain balance at all times.
- 3. The operator should ensure that his face is never close to the tool
- 4. Safety glasses and shoes should be worn.
- 5. The tool or accessory should never be rested on the operator's toes
- 6. The tool should never be started when laying on the ground
- 7. The operator should never use his body to control the tool while it is in operation.
- 8. Both hands of the operator should be kept on the hands of the tool while it is in operation.
- The lubricant should comply with Consolidated Pneumatic's recommendation.
- 10 When the tool is not in use, remove the accessory unless it is retained in a positive manner
- A percussive tool shall not be operated unless the chisel, rivet set or other is in position in the tool and is in contact with the workpiece. Tools shall not be used in such a manner that ejection of an accessory might endanger adjacent personnel

# CP FL22F & CP FL22FS Claydiggers Recommended Lubricants

Manufacturer	Lubricant
СР	Airolene Tool Oil
Esso	Nuto H 40
Gulf	Harmony 40 AW
Mobiloil	Velocite No. 10
Texaco	Spintex 100
Dalton	P101/P
Shell	Tellus 23
Burmah Castrol	Hyspin AWS 22
BP Power Petroleum	BP Energol CS 40
Duckham	Zeroflo 4
Sternol	Albatross 21
Petrofina	Hydran 31
Chevron	Vistac Oil 9x
Centry Oil	P313