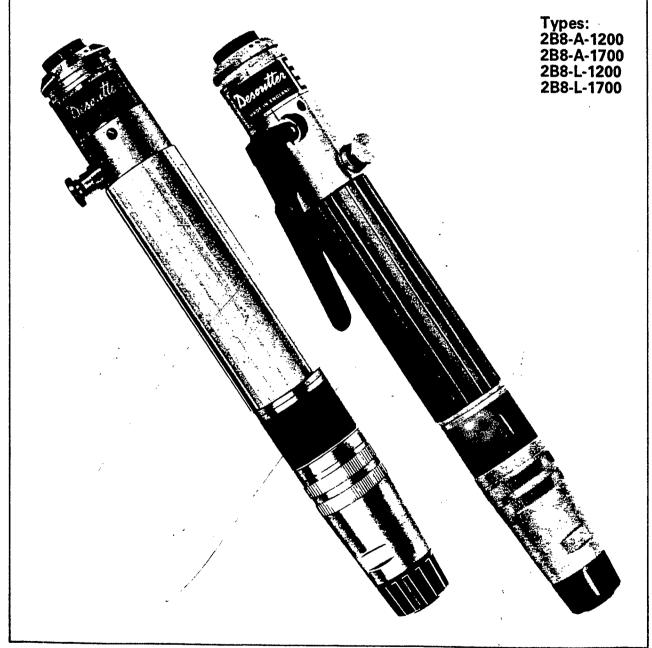
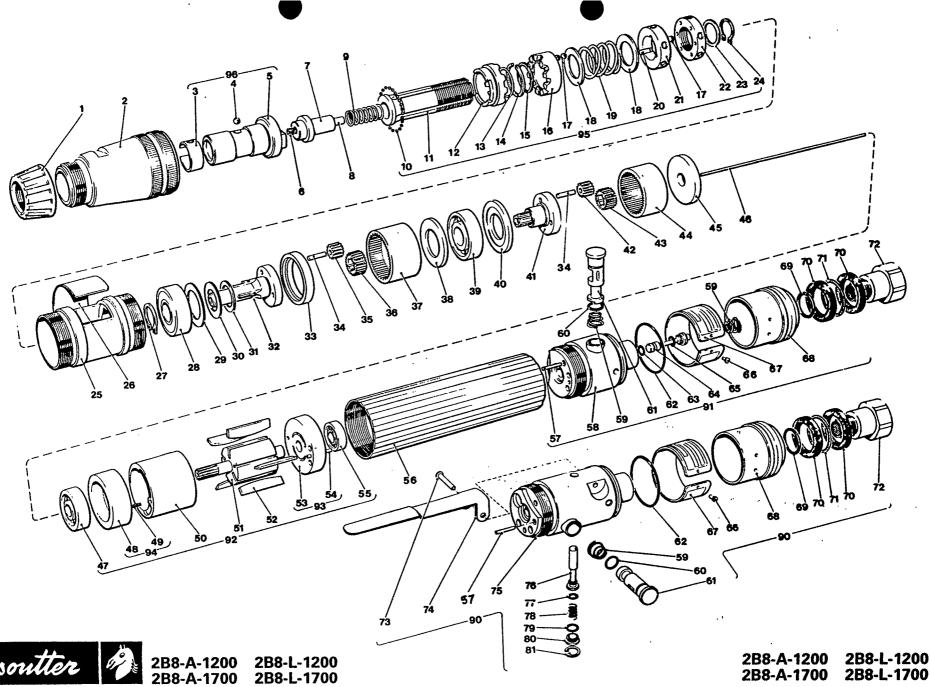


Miniature Reversible Screwdrivers



1/4 in. 5/16 in. 5 mm 6284 7254 5474 6364 7334 5554 9614 9534 9874 9794

Operating and Service Instructions





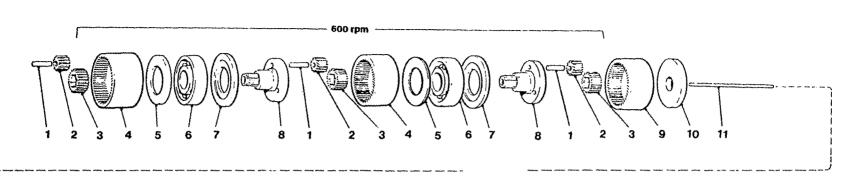
2B8-A-1700 2B8-L-1700

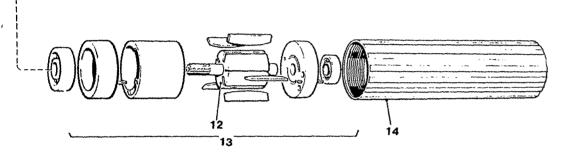
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2B8-A-1700 2B8-L-1700

Item Part Item Part Item Part No. Description No. Description No. No. Description Thread Protection Cap ... 177163 203903 Pin Control Top and Bush Pistol Grip Kit Model A Only 65092 170473 176233 Hush Silencing Kit 86058 96843 Vacuum Pick-up Kit 1/2 in. BSP Inlet Painted Case 67458 *60 216463 'O' Ring
Reverse Valve and Button
'O' Ring
'O' Ring
'O' Ring
'O' Ring
'O' Ring
'Drive Screw
Nameplate
Silencer Housing 66868 61 203913 Vacuum Pick-up Kit 1/2 in. NPT Inlet *62 *63 64 *65 66 67 Tools 72408 177923 5/16in. Hex. Drive Only Bit Holder ¼ in. Hex Drive 170503 216473 201103 Bit Holder % sin. Hex Drive 217713 Bit Holder % sin. Hex Drive Self Locking Set Screw – Type A Only 205943 176273 270143 Bearing Pin 54853 Bearing Pin Roller – Type A Only 20553 209303 170433 Spring 223363 NOTE: Information on the complete range of slotted and cruciform *69 70 'O' Ring 4023 203713 screwdriver bits and nutrunners are available on request. Clutch Spindle 170343 223353 170353 64093 'O' Ring 'O' Ring
Adaptor ¼in. BSP
Adaptor ¼in. NPT 68943 176283 Circlip - Square Section 170663 Washer Sliding Clutch 170653 16 17 170363 Lever Control Top (Difference) Always quote tool model number, serial number and spare part 72228 Ball 73 74 75 201043 Pin 1 number when ordering spares. 170393 179913 Washer 201033 Lever 200973 Control Top and Bush 202413 Roller Lock Washer ... Adjusting Nut ... 76 200993 Lever Valve Spindle 20 21 22 23 24 25 26 27 *28 29 30 31 32 33 34 35 36 170403 *77 78 176273 'O' Ring *Indicates normal replacement items. It is recommended that adequate 170413 Spring
'O' Ring
Lever Valve Cap 201013 stocks are held for servicing requirements. 170423 43493 203943 Washer 201003 42353 215613 170453 170463 200083 178543 Circlip Complete Assemblies Shim 0.005in. (0.13mm) Shim 0.005in. (0.13mm) Shim 0.005in. (0.13mm) 226993 Control Top Complete 1/4 in, BSP Control Top Complete ¼in, BSP
Control Top Complete ¼in, NPT
Control Top Complete ¼in, NPT
Control Top Complete ¼in, NPT
Motor Complete
Rear Bearing Housing and Pin
Front Bearing Housing and Pin
Clutch Complete Grey Spring
Bit Holder 5/1sin, Hex Complete
Bit Holder 5/1sin, Hex Complete
Bit Holder 5/1sin, Hex Complete
Bit Holder 5/1sin, Hex Complete (0.13mm) (0.13mm) (0.13mm) 216493 227003 206633 91 224043 76640053 224053 170283 Planet Cage 177183 216483 Shim Housing 93 94 177083 170233 177093 170333 170223 170213 Pinion Internal Gear 177153 170273 .201093 38 170253 223233 Bit Holder 5mm Complete 2423 Washer
Planet Cage and Bush 1200 RPM
Planet Cage and Bush 1700 RPM
Planet Wheel 1200 RPM
Planet Wheel 1700 RPM
Pinion 1700 RPM Only
Internal Gear 1200 RPM
Washer
Push Rod Type A
Push Rod Type L 170243 40 Servicing Tools Required 174243 1.5mm Hexagon Wrench 174313 13963 Clamp Block Clamp Block Spanner for Item 2 ... 42 170763 178973 170223 Key Clutch Case Key Control Top 178883 170213 178893 174253 174303 Supplied Accessories 177173 39433 Suspension Bail ... Clutch Adjusting Rods 177213 178963 226013 215513 •47 48 64398 202413 174353 Plastic Hose Complete 1/2 in. BSP 154543 Pin (2 metres long) 174323 Cylinder Cylinder ... Rotor 1200 RPM ... 174373 Optional Accessories 235943 Rotor 1700 RPM 36822 Plastic Hose Complete 1/4 in. NPT Desoutter Limited, 319 Edgware Road, *52 53 54 *55 174363 Rear Bearing Housing 1 (2 metres long) Plastic Hose Complete 1/2 in. BSP Colindale, London NW9 6ND 174343 Telephone 01-205 7050 Telex 21392 203903 Pín (3 metres long)
Plastic Hose Complete 1/2 in, NPT 64122 Motor Case C/W Sleeve (3 metres long) Printed in England 389

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9 174303 Planet Cage 2 10 177173 Internal Gear 1 11 223643 Push Rod-Type A 1 12 235943 Rotor 1 13 235983 Motor Complete 1 14 223633 Motor Case	10 11 12 13	177 173 223643 223643 235943 235983	Washer Push Rod-Type A Push Rod-Type L Rotor	Qt 9 9 3 2 2 2 2 1 1 1
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2B8-A-600 2B8-L-600

319 Edgware Road, Colindale, London NW9 6ND.
Telephone: 01-205 7050
Telex:21392

Printed in England

4.89

All other details as service sheet for 1200-1700 RPM tools.



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2B8-L-1200 2B8-A-1200 2B8-A-1700 2B8-L-1700

Servicing Instructions

2B8-A-1200 2B8-L-1200 2B8-A-1700 2B8-L-1700

TO DISMANTLE

All threads are L.H. unless otherwise stated.

Use spanner 178973 to unscrew the bearing housing (2) and remove the bearing pin (7) with roller (8) and set screw (6), (Note the latter two components only fitted in Type A tools), then spring (9). Withdraw clutch assembly (95) and pull out the push rod (46). Use a %in. A/F spanner to remove the adaptor (72) and remove the two silencers (70) and 'O' ring (71).

To dismantle the clutch assembly (95) remove the circlip (24) and washer (23) then unscrew the adjusting nut (22) R.H. thread. Slide off the lock washer (21) washers (18) spring (19) clutch (16) rollers (20) bearings (16) and washer (15). Remove the circlips (14) and (13), slide off the fixed clutch (12) taking care to catch the bearings (10). Clamp the control top key 178893 in a vice with the pins upward. Engage the control top (58) holes with the key pins and insert the hexagon of key 178883 into the clutch case (25) and unscrew. The control top (58) should also be released, if not use clamp blocks and secure the case (56) in a vice and use the pin key to unscrew the control top.

Push the motor and gearbox assemblies out of the case, remove the circlip (27). It may be necessary to use a soft-faced hammer on the spindles of planet cages (32) and (41) and the rotor (51) to separate the component.

NOTE: It is recommended that all 'O' rings and circlips are changed on overhaul.

Motor:

Pack bearing (55) with grease and press into the rear housing (53), check that the pin (54) is fitted to the housing. Fit the short end of the rotor (51) through the rear bearing housing into the bearing. Slide the cylinder over the rotor ensuring that the pin hole engages on the pin in the rear bearing housing and the air holes are aligned. Fit five rotor blades flat side to cylinder and liberally oil.

Fit the front bearing housing flat side to the cylinder, check that the pin (49) is fitted and engages in the location hole in the cylinder. Pack bearing (47) with grease and press onto the rotor and into its seat in the housing.

Gearboxes:

Fit three planet wheels (42) to the primary planet cage (41) held in by planet pins (34). Grease the wheels and the internal gear and fit together. Fit the flat side of washer (45) to the rear of the internal gear and the flat side of washer (40) to the front. Pack bearing (39) with grease and fit over the primary planet cage spindle.
Fit three planet wheels to the final planet cage (32) with planet pins

(34). Grease the planet wheels and internal gear (37) and fit together. Slide the shim housing onto the front of the planet cage cut-out to the front followed by the shims (31), (30) and (29). Pack bearing (28) with grease and press onto the planet gear shaft with the bearing shield to the front of the tool. Secure by fitting the circlip (27).

Fit a new 'O' ring (60) to the reverse valve (61), Insert one of the conical springs (59) into the bushed hole in the control top (58) large end to the bottom of the hole, fit the reverse valve and secure with pin

Grease the bearing channel at the front of fixed clutch (12), insert the clutch spindle (11) approximately three quarters of its travel. Fit the twenty four balls (10) into the ball channel of the fixed clutch, push the clutch spindle to the end to secure the balls. Fit the round circlip (13)

up to the fixed clutch followed by the square section circlip (14) and washer (15). Grease the three channels of the clutch spindle and fit two balls (17) in each channel. Fit the sliding clutch (16) to the spindle with the dogs engaging and over the balls in the channels. Slide one washer (18) followed by the spring (19) and second washer (18).

Grease the inside channels of the lock washer (21) and fit three rollers (20) and fit to the clutch spindle. Fit three balls (17) to the indentations on the face of the lock washer and screw the adjusting nut (22) onto the clutch spindle. Secure with the washer (23) and circlip (24).

Final Assembly:

Fit the motor assembly into the rear of the motor case (56) leaving it slightly protruding. Engage the control top location hole (central between the air holes) and screw the control top into the motor case maintaining a light pressure on the motor spindle to ensure alignment. Clamp the motor case in clamp blocks held in a vice and use service key 178893 in the control top, tighten to a torque of 14 Nm (10.5 lbf ft) ensuring that the control top is flush against the motor case. Fit the pinion (43) (1700 RPM Models only) to the motor rotor and slide the primary planet cage assembly down the motor case checking that the gears mesh.

Fit pinion (36) to the primary planet cage pinion and slide the secondary planet cage assembly down the motor case checking that the gears mesh, secure by screwing into the front of the motor case

Clamp key 178893 in a vice and hold the control top down onto the pins, use key 178883 tighten the clutch case to 13.56 to 16.27 Nm (10 to 12 lbf ft).

Insert the push rod through the centre hole of the secondary planet cage and fit the clutch assembly.

NOTE: On the Type A Models fit the set screw (6) and roller (8) to the bearing pin. Fit the spring (9) inside the clutch spindle followed by the bearing pin assembly and bit holder (96) secured by screwing on the bearing housing and bush assembly (2). Fit the thread protection cap

Model A Series Only:

Fit a new 'O' ring (62) to the control top and 'O' rings (63) and (65) to the valve stem (64), lightly smear the 'O' rings on the valve stem with silicone grease. Fit the small end of the conical spring (59) to the end of the valve stem and insert the valve into the control top.

Fit the silencer case (68) followed by the two silencers (70 either side of 'O' ring (71) and secured with the adaptor (72) with a new 'O' ring (69) fitted. Tighten the adaptor to 11.25 to 12.47 Nm (8.3 to 9.2 lbf ft) R.H. thread.

Model A Only:

Adjustment after assembly:

Insert a 1.5mm hexagon wrench through the end of the bit holder (96) and engage with the set screw (6) and unscrew R.H. thread a couple of turns to ensure that the push rod (46) is clear of valve (64). Position a piece of cloth over the air inlet as a moisture trap. Blow into the inlet where considerable resistance will be felt and at the same time screw up the set screw until the valve just opens, denoted by no resistance to air pressure. Then slowly unscrew the set screw until resistance to blowing is felt, i.e. valve closed. This indicates that all play between the roller (8) push rod (46) and valve (64) is taken up. Unscrew the set screw one full turn to give the operating setting.

In service "e tool should require a slight forward pressure to start, a further a sail forward movement for the bit to rotate and when lifted from the job should stop immediately. Slight adjustment to the set screw setting may be necessary to produce the operational sequence. All Models:

Clutch Adjustment:

Insert one clutch adjusting rod into a hole in lock washer (22) and the other in the adjusting nut (21). Turn the adjusting nut R.H. thread in the required direction, tighten to increase torque setting. The adjusting nut is locked by the three spring-loaded balls (17) and a definite click should be heard every one sixth of a revolution of the nut.

(1) Always disconnect tool from the air supply before attempting any replacement, adjustment, servicing or dismantling.

Ensure no loose articles of clothing or cleaning materials can be caught by the rotating parts of the tool.

Adjustable spring tension clutches are fitted to most models and can be set to ratchet (or cut-out on one shot models) at a pre-determined torque. A second clutch spring is supplied with each torque controlled screwdriver to extend the range of torque settings available within the power rating of the tool.

Automatic start screwdrivers operate when a light pressure is applied to the fastener. Though a steady pressure must be applied throughout the operating cycle to keep the screwdriver and fastener in engagement.

Release the screwdriver as soon as the clutch ratchets, as continued engagement will increase the torque loading on the

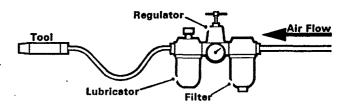
AIRLINE MAINTENANCE AND LUBRICATION To obtain maximum efficiency and minimise maintenance of your air

tools the following points should be observed. The air supply should be clean, dry and filtered. Select a filter of correct size for the pressure and air flow. Maintain the recommended supply pressure of 6 bar (87 lbf ins) selecting a pressure regulator with flow and pressure range to suit

An automatic airline lubricator adjusted to deliver the correct quantity of oil and selected to suit the required airflow should be included in

When an automatic lubricator is not fitted the tool must be lubricated at least twice a day by pouring a small quantity (5 cc) through the air

Site the filter and lubricator in the supply line as near as possible to the tool.



Desoutter recommend

Oil - Duckhams 'Zeroflo 2' to BS 2626/1965 for rotor blades. Grease - Duckhams Type Q5618 for gearboxes and bearings. Silicone grease - Molykote 33 for 'O' rings.