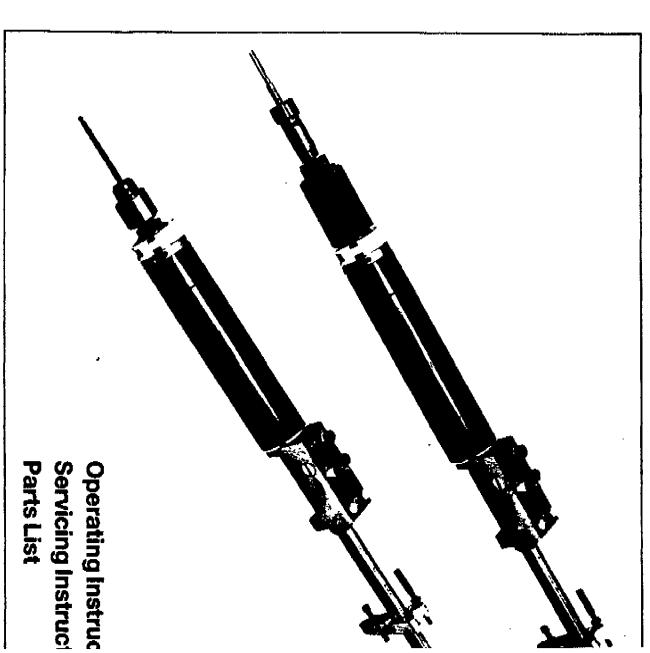
and Tappers **Auto Feed Drills** Desoutter

AFT40- 1200 AFT40- 800 AFT40- 500	FD40	444	FD40-100	Types AFD40-23000
117184 119124 118154	611 417	112134	<u> </u>	Code 111164



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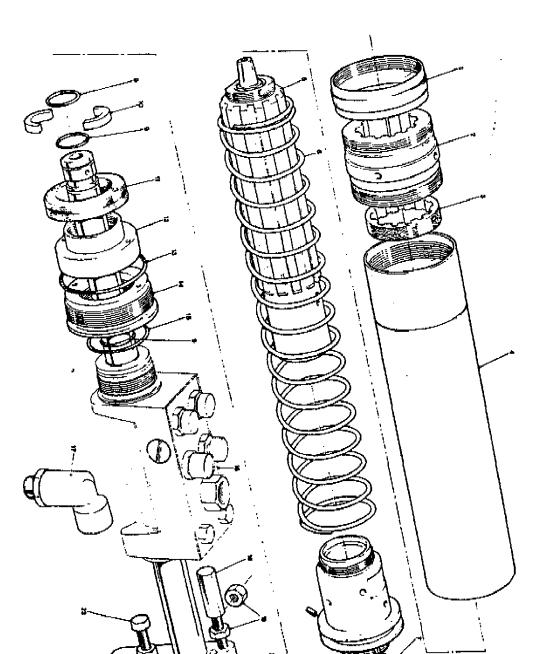
Desoutter Limited,

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Always quote tool number, serial number and spare part number when ordering spares.

Parts List-Main Assembly

* Indicates adequate și	22.	3 살	8	19	5	17		ö	;	<u>.</u>	13	73	* 1:3	5	•	œ	, q ', y	(J)		Œ	4	ω	Ŋ	44	Item No.
normal repi locks are he	51933	260823	254983	52473	60923	62542	Section	See later	225553	2557.83	50783	265023	267383	154263	37223	257403	260813	49483	Section	See later	50093	53263 ·	49333	54223	Part No.
 indicates normal replacement items. It is recommended that adequate stocks are held for servicing requirements. 	Adjusting Screw	Air Feed Tube	Crosshead	Locknut	Stroke Adjusting Screw	Male Stud Elbow		Control Top Complete	O Ring	Adaptor	O' Ring	Clamp Nut	Piston Seal	Clamp Ring	O' Ring	Felt Wiper Ring	Spring Pin 3mm dia x 6mm lg	Return Spring		Motor and Gaarbox Complete	Outer Case	Silencer Ring	Bearing Statue	Thread Protecting Cap	Description
Tage			_	u	_	_		_	_		-4	····		_	Ŋ	_	ĸ	_		_	_	_		_	O Y



item No.

Part No.

. Description

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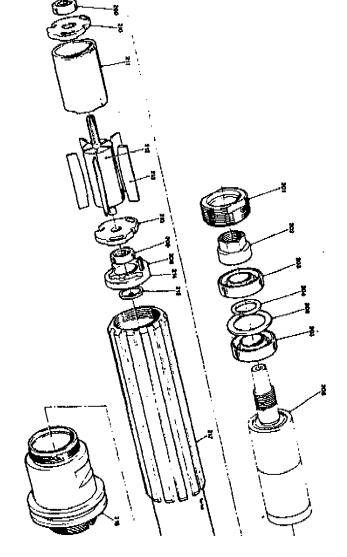
	21 7 21 8 21 9	212 213 216	201 202 203 204 204 205 206 207 207 208 210
273203 257293 257303 257313 257313 257323	252783 252783 268563 266663 238853 255783 257273	257063 37163 98223 2686 73 268663 266663 500193 254913 254903 254903 252763	265243 265233 2413 49023 49023 2633 See later Sections 5e41013 254893 254893 254873 254873
Motor and Gearbox Assembly, 10,000 rpm Motor and Gearbox Assembly, 5300 rpm Motor and Gearbox Assembly, 3800 rpm Motor and Gearbox Assembly, 3000 rpm Motor and Gearbox Assembly, 3000 rpm Motor and Gearbox Assembly, 1700 rpm Motor and Gearbox Assembly, 1700 rpm Motor and Gearbox Assembly, 1700 rpm	Motor Casembly 8 teeth, 800, 1700, 3800 rpm Motor Assembly 12 teeth, 1200, 5300 rpm Motor Assembly 6 teeth 23,000 rpm Motor Assembly 8 teeth 10,000 rpm Motor Case Piston Motor Case Piston Motor Geerbox Assembly, 23,000 rpm	Rotor, 7 teeth, 500, 3000 rpm Rotor, 8 teeth, 800, 1700, 3800 rpm Rotor, 6 teeth, 1200, 5300 rpm Rotor, 6 teeth, Ext. long, 23,000 rpm Rotor 8 teeth, 10,000 rpm Rotor blade Rear Bearing Housing End Cap Motor Assembly 7 teeth,	Clamp Nut Sprindle Nut Bearing Washer Washer Washer Gear Assemblies Front Bearing Housing Spring Pin Bearing Plate Cylinder
		ت سی میروند.	

Parts List - Motor & Gearbox

				ttem No.
	257353		257343	Part No.
500 ;pm	Motor and Gearbox Assembly,	800 rpm	Motor and Gearbox Assembly,	Part No. Description
		_		Oty.

indicates normal replacement items. It is recommended that adequate stocks are held for servicing requirements.

Atways quote tool number, serial number and spare part number when ordering spares.



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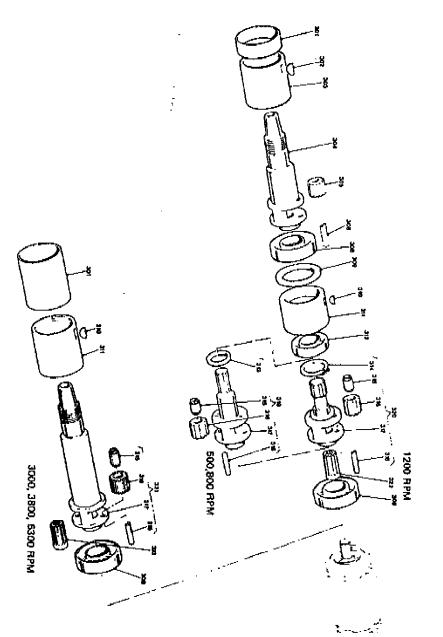
	AFD40 AFT40	400	
	tem No.	Part No.	Description
	301	201263	Spacer, 1200
•		49373	Bearing Spac
-	3	J 7 7 8	5300 rpm
	303	49433	Gear Aling, 5
0		56763	<u>,</u>
	<u>3</u>	49443	Plenet Cape,
•		49423	Plenet Cage,
		201243	Planet Cage,

,,			V		3		ш		υy	Z	.aı	ш	711	11	m	uu	15	u	a	U	Irc	u	Р	= ,	r	eı	ш	er	10	U	1 3	vu	PΡ	111	er	5	211	IC	e	13	,0	,			U	V	,
	23	i		2	: 2	5	u	ã	;			-		7	;		16	5	Ä			7				=======================================		310	906	ä			307	8			306			30 20		50	302			301	
	65373	-		ت		-	-	1403	201293	49402	49473	20123	52063	52083	65383	36703	150813	502093	25573	51693	51723	7423	56763	36713	51973	150823		25568	37623	2413	201233	49413	49453	80013	201 253	36723	40363 .	201 243	49423	49443	56763	49433	25568		49373	201263	
Ψino	Pinion, 1200, 5:	Cage Assembly,	8	Cage Assembly,	Ç	Cage Assembly,	Cage Assembly,	3		9	Š	Ç	Š	Caga,	Wheel,	8	Planet Wheel, 500, 3000 rpm	Needle Cage	Circlip, 1200 rpm only	Distance Collar, 800 rpm	Distance Collar, 500 rpm	Bearing	홅	Gear Ring, 1200 rpm	8	Gear Ring, 500, 3000 rpm	5300 rpm only	Key, 500, 800, 3000, 3800,	Distance Washer, 1200 rpm only		ŝ	Cage Assembly,	Planet Caga Assembly, 500 rpm	Planet Pin	Planet Wheel, 1200 rpm	¥.	5	8	8		첧	Gear Aling, 500, 800 rpm	Xev	5300 rpm	Bearing Spacer, 3000, 3800.	Spacer, 1200 rpm only	
-			_		-	_	-	N	<u>-</u>			_	_		N)	Ŋ	N	N	_	_	-	_	444		_	_	2		-•	2				-		<u>.</u> .	- ,	.	-+	_	-1		N	_	,	-	

Parts List - Gearbox

Always quote tool number, serial number and spare part number when ordering spares.

* Indicates normal replacement items, It is recommended that adequate stocks are held for servicing requirements.



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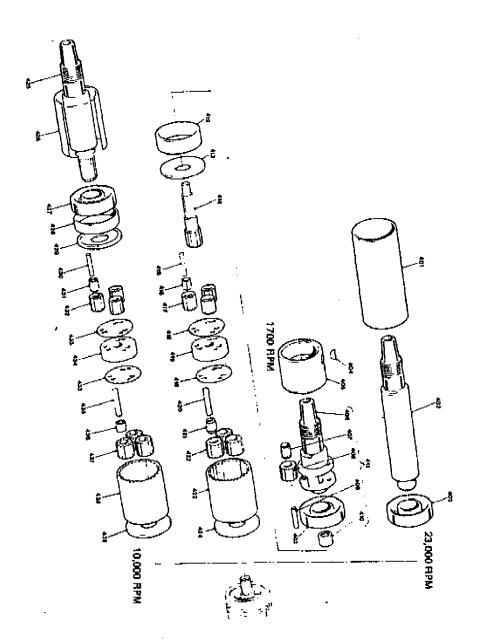
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266503	266483	266513	266643	500683	286573	266493	266543	251663	251493	76203	204223	2413	50083	266703	266503	266483	266513	251663	500683	266573	266493	266543	266643	251493	277883	277903	277893	51983	52033	1 53	36703	502093	51993	52003	25568	2413	68973	58983	Part No.
Washer, Rear	Geer Pling	Planet Wheel	Needle Roller	Menet Pin	Double Planet Carrier	Pin Retaining Washer		Cage Needle Roller	Planet Pin	Thrust Washer, Front	Distance Piece	Bearing	Bearing Spacer	Chuck Spindle	Washer, Rear	Gear Ring	Plenet Wheel	Bearing	Planet Pin	Planet Carrier	Retaining Washer	Planet Wheet	Needie Roller	Planet Pin	Intermediate Pinion	Washer Front	Spacer	Planet Cage Assembly	Rolfer Searing	Planet Pin	Planet Wheel	Needle Cage	Planet Cage	Internal Gear	Key, 1700 rpm only	Bearing	Chuck Spindle	Bearing Spacer, 23,000 rpm only	Description
-		ယ	30	ယ		N	ω	L	_	_	_				₩	_	ω	ω	မ	-	13	ω	8	(Li	_	_	_	_	N)	Ņ	N	N	-				_	_	Oty.

Indicates normal replacement items. It is recommended that adequate stocks are hald for servicing requirements.

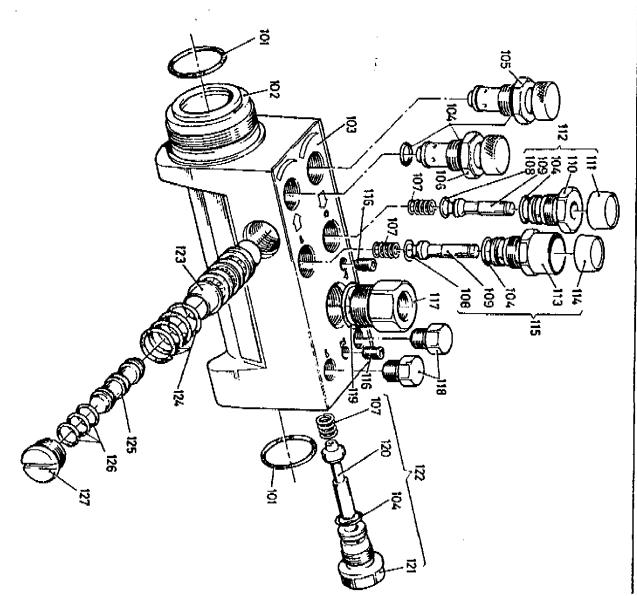
Always quote tool number, serial number and spare part number when ordering spares.

Parts List - Gearbox



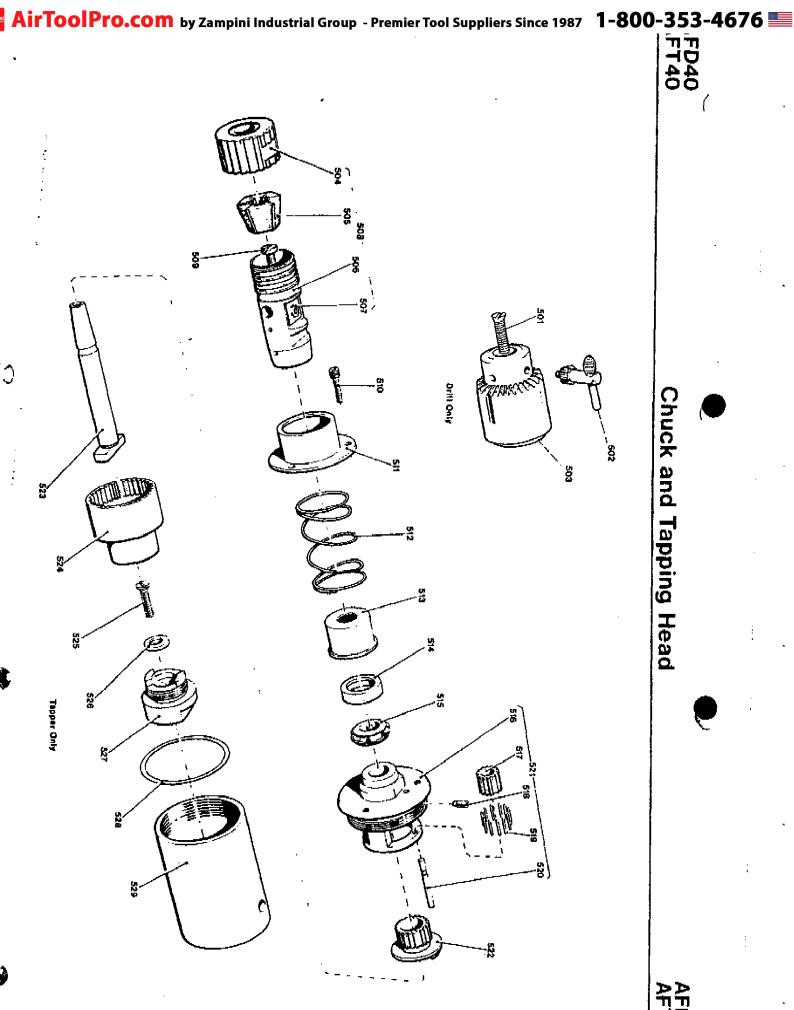
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item No.	Part No.	. Description	0t¥.
101	41523	O' Ring	N
102	255763	Control Top with Bushes	-
1 03	256903	Control Panel	_
104	40503	'O' Ring	an .
105	256973	Rejorn Valve	 (
ä	256933		 ,
107	39783	Spring	.
807	43583	O' Ring	N 3 (
6 0	202773	Valve Spindle	N 1
150	51793	Valve Body	<u>-</u> ,
11	202833	Bullon · Red	
112	203763	Stop Valve Complete	
1:3	256923	Valve Body Shrouded	· · ·
7.4	202843	Button - Green	
115	256913	Start Valve Complete	_
1:6	236693	Plug	23
117	42953	inlet Adaptor - % in, BSP	a
ı	47133	Inlet Adaptor - % in, NPT	-
	257D43	Pressure Reducer 1/8 in. BSP	_
-	257053	Pressure Reducer 1/8 in, NPT	_
	51873		N
	40533	O' Hing	
	51743	Valve Spindle Complete	-
121	172013	Valve Body	_
122	172003	Stroke Control Valve	
	257003	Valve Bush	-
	0.63 63	O'Aing	4
-	202763	Piston Control Valve	
726	11513	O' Ring	ப
127	202803	End Cap	-
	256823	Control Top Complets - % in, BSP	-
	256833		-
" indicates no	emal pepi	" indicates normal repiacement items. It is recommended that	X
adequate stoc	ks are hel	adequate stocks are held for servicing requirements.	
Always quo	100 nu	Always quote tool number, serial number and spare part	
Always quo	te tool n	d for servicing requirements. umber, serial number and spare (E



Parts List - Control Top

Chuck and Tapping Head



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item No.

Part Mo.

Description

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Servicing !nstructions/Parts List-Tapping Head

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		529			279	527	526	525	0 0	270	270	} _	2 6	5 6	, co	517	516	5	514	513	512	<u>5</u>	510	500	1			508	207		ğ	1	505	50				503				502	!					<u>5</u>
31692	_	53043	ω									00123			ω	1443	61553	68828	81889	62143	62293	62153	57003	79783		37822		37832	31672	31632	31622	29482	29472	31642		34752		34332		29242		29202			205313			205323
Chuck Body Spanner	Chuck Nut Spenner	Extension Case	Shim 0.020in. (0.50 mm)	Shim 0.010in, (0,25 mm)	Shim 0.005in, {0,12 n;m}	Driving Dog	Washer	Screw	Reverse Internal Gear	Chuck Spindie	Sun Pinion	End Cap Assembly		Aolier	Screw	Wheel	End Cap	Case and Balls	Outer Flace	Thrust Race Housing	Spring	Spring Housing		Screw	₹	Tapping Chuck Assembly Kin,	1/2, in. Capacity	Tapping Chuck Assembly	Javes	_	Body 1/1 in. Capacity	Collet Kin, Capacity	Collet 7, in, Capacity	Zu	2300 rpm, 3200 rpm, 4600 rpm	Chuck for speeds 1700 rpm.	700 rpm, 1000 rpm	Chuck for speeds 500 rpm.	2300 rpm, 3200 rpm, 4500 rpm	Chuck Key for speeds 1700 rpm	700 rpm, 1000 rpm	Chuck Key for speeds 500 rpm	1000 rpm	speeds 500 rpm, 700 rpm.	Chuck Retaining Screw for	3200 rom 4500 mm	speeds 1700 rpm, 2300 rpm	Chuck Relaining Screw for
-	 .		As regid	As regid	As regid					_	_	-	N	N N	NJ I	N.	<u> </u>		<u> </u>	_			.	_•		_		-	_	_			_	-		- -	•							,	-		-	-

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number when ordering spares. Aiways quote tool number, seriel number and spare part

SINGLE SPINDLE TAPPING HEAD

To Dismantle

other side until the chuck slides cheer. chuck spindle, placing one side of the wedge on a bench. Tap the sumbre the retaining screw (509). Insert wedges either side of the To remove the chuck (508) from the chuck spindle (529) first

(514) to be removed (511), spring (512), thrust race housing (513) and the outer race Unscrew the three screws (556) enabling the spring housing

pinion and the chuck spindle, tap the chuck spindle, springing off the cage and bells (515). the chuck spindle and the sun pinion (522). To remove the jun Unscrew the end cap. (521) (L.H.) and remove complete with

place the AFD outer case between a pair of clamp blocks and mount in a vice. Remove the retaining screw (525), unscrew the extension Case (F.H.) To remove the extension case (529) from the main AFD first

To remove the reverse internal gear (524) from the driving dog (527) locate assembly tool (14963) into the reverse internal gear. and the flats on the driving dog in a vice and unscrew.

* ews (518) and push out the end cap pins. To remove the end cap wheels (517) unscrew the retaining

To Assemble

With the retaining washer (506) and the retaining screw (525) fasten the driving dog to the AFD, Screw back the extension case on to the AFD (L.H.).

driving dog. Using the assembly tool screw the reverse internal gear to the

and press on the cage and balls. Replace the sun pinion and the chuck spindle into the end cap-

Screw back the end cap on to the extension case, $\{L,H_i\}_i$ and replace items 510 to 514.

spindle are clear of grease, and secure with screws. Tap on the chuck, making sure the chuck bore and the chuck

6393

Hexagon Key

3-467 ≥≥

AFT40

CONTROL TOP

To Dismunth

Unscrew and remove inlet adaptor (117), with any customer litted connection. Unscrew and cap (127) exposing valve bush (123) and piston control valve (124). Using a thin wire hook pull out the valve bush with the piston control valve. Separate the valve from the bush and discard all 'O' rings.

The remainder of the dismentling is obvious with reference to the illustration. It is suggested that as each valve is removed it is placed in a container and identified for future use.

To Assembl

Assemble '0' rings (126) to piston control veive then slide valve into the control valve bush (12). Fit '0' rings (124) to valve bush and carefully fit the bush/valve assembly into the control top. Screw in end cap (127) and tighten to a torque of 10.8 to 13.5 Nm (8 to 10 lbt/ft).

Refer to the illustration for locating the remaining valves and components noting the following points:

Position a spring (107) on the spigot of each button assembly (112 & 115) and stroke control vaive (122) before assembly into control top.

Tiphten all values and plugs to a torque of 8.5 to 9.0 Nm (75 to 80 lbt/in.).

Tighten inlet adaptor (117) to a torque of 31.0 to 38.0 Nm [23 to 27 lbf/h],

Ensure that 'O' rings (101) are greated before placing in their housings in control top bore. Place assembled control top in an sirtight container until required, see General Assembly for details.

MOTOR AND GEARBOX

To Dismentle

As the unit has already been partly dismantled, see General usembly, it is only necessary to remove the piston (217) and lamp nut (201) then push the internal components out of the totor case (218).

The motor and gear train assemblies can be dismaniled using ormal workshop practise when removing bearings from spigots, fentity your gearbox in the illustration and refer to it for order f disassembly.

OTE: Locknut (202) has a R.H. thread all other threads in this area are L.H.

To Assemble

Servicing Instructions

The motor complete (2161: Take the rotor (212) and place the rear bearing plate (210), with grooves to rotor, into position. Press bearing (200) onto the rotor so that there is a 0.038 mm (0.0015in.) gap between the rotor and the rear bearing plate. Holding the rotor and rear bearing plate essembly with the gear and of the rotor uppermost, slide the cylinder (211) over the rotor.

Locate the rotor blades (213) into their slots in the rotor and lubricate. Place the front bearing plate (210) into position, with grooves to rotor.

If a new bearing (209) is to be litted into the front bearing housing (207) make sure that the bearing is 0.25 mm (010In.) below the housing face out of which pin (208) protrudes.

Press the front beering housing with its bearing onto the rotor making sure that all location holes are aligned so that the plins can pass through on assembly.

NOTE:

This assembly should be pressed on using the Inner face of front bearing (209) and taking he reaction on the end face of the rotor rear bearing spigot. The essembly should be pressed on until all the free axial movement between the front and rear bearings is removed.

Locate the rear bearing housing (214) with end cap (215) and check that the rotor is free to ratate.

The gear train:- Refer to the illustration to identify the components in the gearbox and the order of assembly. Grease the bearings and gears on assembly and tighten locknut (203) to a torque of 8.4 to 9.0 Nm (75 to 80 lb//in).

The piston (218) must be tightened onto the motor case (217) FIRST and final clamping carried out by fitting clamping to (201).

TESTING AFTER ASSEMBLY

Required:

Hand Tachomater with a scale range to suit tool.

Diel Test Indicator (D.T.I.) on Stand.

Mandril — 61 mm (Zin) long by 6.5 mm (0.25m) die.

Spring Balance — capable of reading over 90 kg. (198.5 lbf.).

peration Test

Fit clamp blocks to the tool and clamp in a vice with horizontally and control buttons uppermost, it used fit provide thrust resistance. Set a gap of 40 mm (1,5 in,) be stroke control valve and the stroke adjusting screw, Inseedrops of oil into the air inlet and connect up the sirline.

Fully open the advance and retract regulating screws peatedly press the green manual start button and cycle refew times, checking that air pressure remains static.

Scraw in the advance rate regulating screw to nearly Press start button and at approximately mid stroke closs edvance rate regulating screw. Allow motor to atrain materies speed, then using the techometer check that the spewithin 5% of that stated on the tool lable. On completion advance rate regulating screw and allow tool to complete

The minimum thrust for this tool is 84 kg. (185 lbf spring belance to confirm.

Insert the madril into the chuck and using the D.T.I. on the mandril (12.7 mm [0.5 in.) from check, check the out does not exceed 0.15 mm (0.004 in.). If it is out of tolerance, tap side of chuck at high side to resettle it the

Reduce air pressure to 2,06 bar (30 lbs/in²). Press ste and adjust advance rate regulating screw so that tool adv slowly and returns. Repeat test several times observing to and retrect action is smooth and free from jerks. Test pic valve by elternatively pressing start button ellowing tool slightly then pressing stop button to retract. Movement is smooth and without hesitation in each direction, when a stop tool in mid stroke by closing the advance rate regula screw. Check for leaks by applying a film of oil ground to and control buttons at their joints with the control top, salisfied press the stop button and open the advance rate screw.

Disconnect the airline and semove tool from vice and is now ready for use.

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AFT40 AFD40

SETTING DRILLING OPERATION

NOTE the H.C.U, should be ignored when setting the standard This setting details a unit with a H.C.U., reference to

distance the drill bit is above the work piece, adjusting screw to equal the depth of drifting required PLUS the Set the gap between the stroke control valva and the stroke

H.C.U. and adjust the resistance within the H.C.U. to the minimum Unscrew the hydraulic stroke adjusting screw away from the

Fully open the retract rate regulating scraw

Close the advance rate regulating screw.

Connect the Bir supply and press the manual start button.

slowly opened, then the drill will gradually advance and approxi-TOTALE. mately 6 mm (0.25in.) from start of advance the drift bit will Nothing will happen until the advance rate regulating screw is

CORTON VOIVE. (0.040in.) before the stroke adjusting screw contacts the stroke Close the advance rate regulating screw approximately 1.0 mm

H.C.U. and lock in position. Set the hydraulic stroke adjusting screw to contact the

Unacrew the advance rate regulating screw; the tool will advance, under the control of the H.C.U. until the stroke control tool will return to the start position and stop valve is contacted by the stroke adjusting scraw at this point the

that the H.C.U. is coming into operation too late or the advance advance and M.C.U. settings. Stalling on 'break-through' indicates rate is too fest, Carry out a set of trial drillings to determine the ideal

SETTING TAPPING OPERATION

- NOTE 1: It is important that the advance rate of the tool is set to this will be more noticeable in plastics or light alloy match the pitch of the thread which is to be tapped. An incorrect edvance rate will result in a deformed thread,
- Ņ The retract rate should be set to withdraw the tap at a clean withdrawel slightly faster rate than it advanced, this will insure a

chuck, above, a test block to carry out sample tapping operations Mount the toot, with the selected tap securely rateined in the

travel. Set the gap between the adjusting screw and the retract the test block, to allow for the tapping head reversing engagement The end of the tep MUST be at least 14 mm (9/16in.) above

Operating/Servicing Instructions

velve to equal the tapping depth PLUS the distance the tap is above the work piece.

retract rate adjustment screw 1½ turns open. Set the advance rate adjustment screw 1 turn open and the

repeat until information in NOTES 1 and 2 are satisfied. thread form, adjust as necessary the advance/retract screws and Carry out a trial tapping operation and inspect the finished

SERVICING REQUIREMENTS

Replace as necessary ail 'O' rings, seek and bearings. Use the following.lubricants as Indicated:

OII - ISO VG 15 or equivalent,

Greese - Duckhams 05618 or equivalent. Silicon Greese - Molykote 33, for 'O' rings. Grease · Rocol BRB1200 for bearings,

be noted in the text, some left hand (L.H.) threads will be found. All E.H. threads will The majority of threads in this tool are right hand (R.H.) but

Servicing Tools

will be required: In addition to the normal range of workshop tools the following

	Description		₽¥.
75938	Wedges		
60073	Spanner for Bearing Steeve (2)		_
50053	Spanner for Motor Air Inlet Cap	•	_
8013	Spanner for Clamp Nut (12)		
17843	Hexagonal Key 1/1 in		_
59233	Gearcase Spanner		
60063	Spanner for Clamp Nut (201)		
60113	Spanner for Spindle Nut (202)		_

lefer to the Parts Lists for illustrations and item references.

Required: Tank to immerse components. Good quality clean paraffin.

all cleaned components in an airtight container until required. dry. Blow through any air passages to remove all moisture. Keep through. After soaking, remove from the tank and thoroughly agitate the component to ensure that any air passages are flushed Soak the components in the tank ensuring full immersion,

GENERAL ASSEMBLY To Dismantle

top. Allow spring to expand slowly. Remove spring an return spring (6) is under compression, outer case (4) spanner inserted in bearing sleeve (2), unscrew, under (16) and clamp in soft jawed vice, outer case horizons assembly. Remova chuck or tapper as fitted. Protect Stacken crosshead clamping bolt (22) and remove

NOTE: it is recommended that bearing steeve (2) protection cap be left on the outer case.

assembly (5) complete with air tube from control (op. Check that air tube (21) is clear and pull motor a

clamping ring (10) and 'O' rings (9), discard 'O' rings. motor and gearbox. Remove cap washer (\$1). From air thread. Remove left ring (8), Remove spring pins (7) at Hold the motor and gearbox and remove clamp nut

discard 'O' ring. Remove and discard 'O' ring {15}. Remove 'O' ring (13) from adeptor (14) and femo

Dismantling the control top and the motor are detailed later in the text.

compression, angage case thread and screw up as far as hand. Finally tighten with 'C' spanner inserted in bearly Remove the assembly from the vice. over motor and gearbox. Hold outer case and agains Fit new 'O' ring (13) to adaptor (14). Slide outer case : by clamp nut. Grease return spring (6) and insert into o and carefully enter air tube through the control top un control top in a soft-jawed vice, hold motor and gearbo onto its seat in the piston. Secure in position with sprin piston of the motor gearbox (5) with clamp ring (10) si Fit new 'O' ring (15) to the control top (16) and fit adnut (12), slide assembly over the air tube and secure to Fit new felt ring (8) to piston. Assemble piston seat () ! of the Piston. Assemble clamp ring (10) to the air tube Fit new 'O' rings (9) to air jube (21). Enter air jube

using the clamping screw (22). Assemble the crosshead assembly onto the airtube

After Assembly and test the tool as detailed. Refer to the Operation Instructions for setting up a

AFT40

REQUIREMENTS

Air Supply - Main

of 6 ber (87 lbf/in 1), with a flow of 9.4 l/s (20 cu.ft/min); controlled by a pressure regulator salected from the Desoutter Air Line Services Equipment Catalogue, A water free and filtered air supply is required, at a pressure

Air Supply - Remote

minimum to reduce air consumption. is 0.47 H_2 (1 cu./t/min). The signal duration should be kept to the least 2.7 bet (40 lbf/in?) and the flow requirement when signalling The basic requirements are as above but the pressure must be at

Lubrication

down stream of the filter, the tool and an sitting lubricator should be fitted into the system Correct jubrication is vital for the maximum performance of

Oil, grade number ISO VG 15, in the lubricator Describer recommend the use of an ISO Viscosity Classified

Accesories

TION, FROM THE DESOUTTER ASSESSORIES CATALOGUE GUARDS: IT IS RECOMMENDED THAT SUITABLE GUARDS ARE SELECTED, FOR CHUCK AND CONTROL TOP LOCA.

available. Full details obtained from Descurrer. Mounting Clamps: A range of clamps, bases and columns are

breakage. To obviate this, the fitment of an H.C.U. is strongly recommended, Request information from Desoutter. into another hole, feed acceleration will occur with possible drill it be required to break through the material and possibly through factorily, when drilling a blind hate at the set feed rate. Should Hydraulic Check Unit (H.C.U.):- The tool will function satis-

by Zampini Industrial Group

be used when the depth of the tote to be drilled is five or more times the hole diameter. This helps clear drill chips and avoids information from Descutter. improved and drill bit run-out can be kept to the minimum. Request excessive overheating of drill bit. Hale size accuracy can be Peck Feed Kits: The Desoutter Peck Feed Drill System should

letails available from Desoutter. 3, 4 and 5 spindle drilling and tapping heads are available. Full Multi-spindle Drilling and Tapping Attachments:- A series of

OPERATING

Operating Instructions

Control Top

signal originations for external control The control top (1) contains all the control functions and

in the Drilling Operation. The controls and locations are identified below and detailed

Location 2: 'P' port tapped MS, signal point for peck feed circuit

3: 'O' port tapped 1/8in, BSP, receives external signal

òi 🕏 Stroke Control Valve, to return the feed to start position.

cycle has commanced/finished. 'M' port tapped M5, signal produced when the motor this signal it can be determined that the drilling is running, used for sequence control. By ensuring

"1" port tapped 1/8 in, BSP, receives external signal to start the tool cycle.

Main air inlet port, tepped 1/8in. or Xin. BSP or

2 Ö

Ä Manual Start Button - Green

Manual Stop Button - Red

Advance Rate Regulating Screw

Retract Rate Regulating Screw (Tapper only).

NOTE it must not be used as a source of eir supply for other The 'M' port is intended for the operation of pilot valves.

Mounting the Tool

OUTER Case The tool must be clamped only in the area indicated on the

2000 The drill must be at least 6 mm (0.25in.) above the work

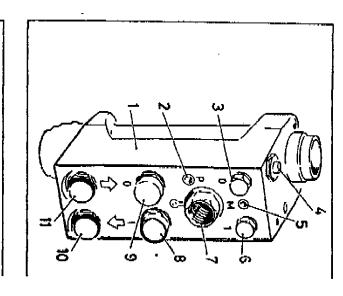
WARNING: (1) ALWAYS DISCONNECT TOOL FROM THE REPLACEMENT, ADJUSTMENT, SERVICING OR DISMANTLING POWER SUPPLY BEFORE ATTEMPTING ANY

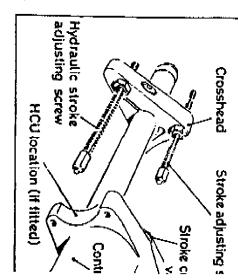
(2) ENSURE THAT NO LOOSE ARTICLES OF CLOTHING OR CLEANING MATERIAL CAN TR 100C. BE CAUGHT BY THE ROTATING PARTS OF

(4) ENSURE THAT WORK PIECE IS SECURELY (3) ALWAYS ALLOW THE TOOL TO STOP BEFORE REMOVING WORK OR RESTING TOOL CLAMPED BEFORE COMMENCEMENT OF

OPERATION - CLEAR ALL LOOSE ITEMS

FROM VICINITY.





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