

Instruction Manual

Original Instruction



74201

Threaded Insert Power Tool

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LIMITED WARRANTY

Avdel makes the limited warranty that its products will be free of defects in workmanship and materials which occur under normal operating conditions. This Limited Warranty is contingent upon: (1) the product being installed, maintained and operated in accordance with product literature and instructions, and (2) confirmation by Avdel of such defect, upon inspection and testing. Avdel makes the foregoing limited warranty for a period of twelve (12) months following Avdel's delivery of the product to the direct purchaser from Avdel. In the event of any breach of the foregoing warranty, the sole remedy shall be to return the defective Goods for replacement or refund for the purchase price at Avdel's option. THE FOREGOING EXPRESS LIMITED WARRANTY AND REMEDY ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES. ANY IMPLIED WARRANTY AS TO QUALITY, FITNESS FOR PURPOSE, OR MERCHANTABILITY ARE HEREBY SPECIFICALLY DISCLAIMED AND EXCLUDED BY AVDEL.

Avdel UK Limited policy is one of continuous product development and improvement and we reserve the right to change the specification of any product without prior notice



Safety Rules

This instruction manual must be read with particular attention to the following safety rules, by any person installing, operating, or servicing this tool.

- 1 Do not use outside the design intent.
- 2 Do not use equipment with this tool/machine other than that recommended and supplied by Avdel UK Limited.
- 3 Any modification undertaken by the customer to the tool/machine, nose assemblies, accessories or any equipment supplied by Avdel UK Limited or their representatives, shall be the customer's entire responsibility. Avdel UK Limited will be pleased to advise upon any proposed modification.
- 4 The tool/machine must be maintained in a safe working condition at all times and examined at regular intervals for damage and function by trained competent personnel. Any dismantling procedure shall be undertaken only by personnel trained in Avdel UK Limited procedures. Do not dismantle this tool/machine without prior reference to the maintenance instructions. Please contact Avdel UK Limited with your training requirements.
- 5 The tool/machine shall at all times be operated in accordance with relevant Health and Safety legislation. In the U.K. the "Health and Safety at Work etc. Act 1974" applies. Any question regarding the correct operation of the tool/machine and operator safety should be directed to Avdel UK Limited.
- 6 The precautions to be observed when using this tool/machine must be explained by the customer to all operators.
- 7 Always disconnect the air line from the tool/machine inlet before attempting to adjust, fit or remove a nose assembly.
- 8 Do not operate a tool/machine that is directed towards any person(s) or the operator.
- 9 Always adopt a firm footing or a stable position before operating the tool/machine.
- 10 Ensure that vent holes do not become blocked or covered.
- 11 The operating pressure shall not exceed 7 bar.
- 12 Do not operate the tool if it is not fitted with a complete nose assembly or swivel head unless specifically instructed otherwise.
- 13 Care shall be taken to ensure that spent stems are not allowed to create a hazard.
- 14 If the tool is fitted with a stem collector, it must be emptied when half full.
- 15 If the tool is fitted with a stem deflector, it should be rotated until the aperture is facing away from the operator and other person(s) working in the vicinity.
- **16** When using the tool, the wearing of safety glasses is required both by the operator and others in the vicinity to protect against fastener ejection, should a fastener be placed 'in air'. We recommend wearing gloves if there are sharp edges or corners on the application.
- 17 Take care to avoid entanglement of loose clothes, ties, long hair, cleaning rags etc. in the moving parts of the tool which should be kept dry and clean for best possible grip.
- 18 When carrying the tool from place to place keep hands away from the trigger/lever to avoid inadvertent start up.
- 19 Excessive contact with hydraulic fluid oil should be avoided. To minimize the possibility of rashes, care should be taken to wash thoroughly.
- 20 C.O.S.H.H. data for all hydraulic oils and lubricants is available on request from your tool supplier.

Specifications

Tool Specification

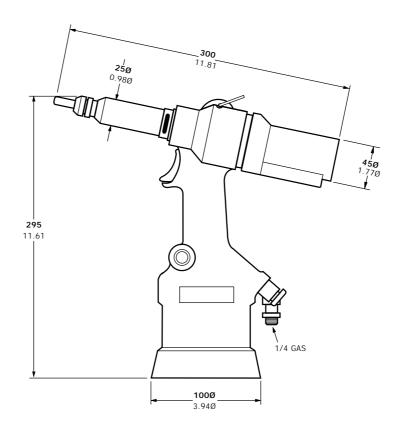
Air PressureMinimum - Maximum5-7 bar (75-100 lbf/in²)Free Air Volume Required@ 5 bar/75 lbf/in²7.5 litres (0.26 ft³)StrokeMaximum7 mm (0.276 in)Motor SpeedSpin On2000 rpm

Spin Off 2000 rpm

Pull Force @ 5 bar/75 lbf/in² 17.65 kN (3967.20 lbf)

Cycle TimeApproximately2.5 secondsNoise LevelLess than75 dB(A)WeightWithout nose equipment2.1 kg (4.63 lb)VibrationLess than2.5 m/s² (8 ft/s²)Placing FeaturesInsertsM3 · M8

Tool Dimensions



Dimensions shown in **bold** are millimetres. Other dimensions are in inches.

Intent of Use

The 74201 hydro-pneumatic tool is designed for placing Avdel® threaded inserts and is ideal for batch or flow-line assembly in a wide variety of applications throughout all industries.

The tool works on the principle of adjustment of the force rather than the stroke. The advantage lies in the fact that it is possible to place the same insert (of the specified tightening thickness) in materials of different thicknesses, after setting the tool for the greatest thickness

The tool is available in the basic configuration using code 74201-12000. In addition there are nose assembly kits available to match the type and size of the insert which is to be placed. (see selection tables on page 9). The tables also give the complete tool code (basic tool plus nose assembly kits).

Nose assemblies must be fitted as described on page 8.

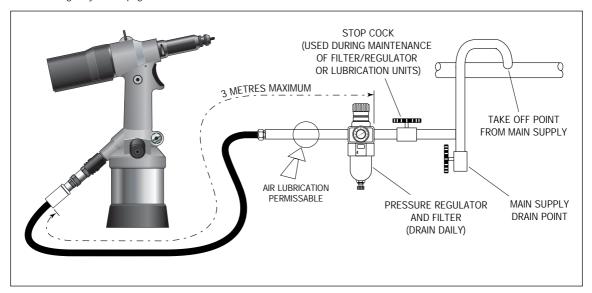
Putting into Service

Air Supply

All tools are operated with compressed air at an optimum pressure of 5.5 bar. We recommend the use of pressure regulators and automatic cooling/filtering systems on the main air supply. These should be mounted within 3 metres of the tool (see diagram below) to ensure maximum tool life with minimum tool maintenance.

The flexible hoses should have a minimum effective working pressure rating of 150% of the maximum pressure produced in the system or 10 bar, whichever is the highest. Air hoses should be oil resistant, have an abrasion resistant exterior and should be armoured where operating conditions may result in hoses being damaged. All air hoses MUST have a minimum bore diameter of 6.4 millimetres or 1/4 inch

Read servicing daily details page 10.



Force Adjustment

After fitting the appropriate nose assembly for the insert to be placed, connect the tool to the air supply hose.

Using the 3mm allen key, unscrew the Regulator 93^* a few turns until pressing the Trigger 40 produces no pull on the spindle.

To confirm this, screw an insert onto the spindle and press the trigger. The insert will not deform and the tool will begin to spin off.

To adjust the pull force, screw in the Regulator **93***approximately half a turn and repeat the operation with the same insert (for each trial operation, screw in the Regulator **93*** until deformation of the insert takes place without any change in thickness). When this stage is reached, this will be the minimum force required to deform the insert .

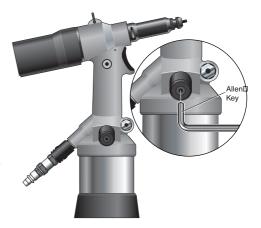
After a successful trial insert deformation, check the thickness and increase the force if the insert is not sufficiently formed.

Usually, this last adjustment requires a slight increase in the tightening of Regulator 93*.

The tool is now ready to operate.

When dealing with different thicknesses, set it for the greatest thickness.

93* See page 16 Pressure Switch Assembly.



Operating Procedure

- Connect the tool to the air supply. Adjust the pull force.
- Offer up insert, lip first, to the drive screw. A slight pressure on the trigger will start the motor and automatically thread the insert up against the nose tip and stop.
- Insert fastener squarely into application.
- · Fully depress the trigger. This will both place the insert into the application and disengage it from the drive screw.

Do not connect the tool to the air supply until all the components are in place, as indicated in the drawing on page 14. Item numbers in **bold** refer to the General Assembly drawing and Parts List (pages 14-15).



Nose Assemblies

It is essential that the correct nose assembly is fitted prior to operating the tool. If you know the code for your complete, original tool, or the details of the fastening systems which are to be used, you will be able to order a new complete nose assembly using the selection tables on page 9.

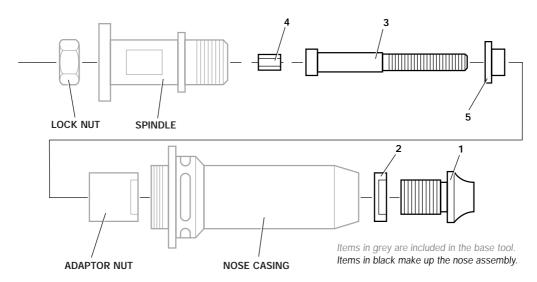
Fitting Instructions

IMPORTANT

The air supply must be disconnected when fitting or removing nose assemblies unless specifically instructed otherwise.

Item numbers in **bold** refer to illustration below:

- · If still fitted, remove the nose casing and the adaptor nut.
- Insert Drive Shaft 4 into spindle.
- Fit Drive Screw 3 onto Drive Shaft 4.
- Insert Reducing Sleeve 5 (if specified) into the adaptor nut.
- Screw the adaptor nut onto the spindle.
- Hold the spindle with a spanner* and tighten the adaptor nut clockwise.
- · While holding the adaptor nut with the spanner*, tighten the lock nut anti-clockwise.
- Screw on the nose casing and Nose Tip 1 with the nose tip Lock Nut 2.
- The reverse operation is carried out for equipment removal.



- With the tool still disconnected from the air supply, screw an insert onto the drive screw manually. Position Nose Tip 1 on the nose casing and lock it with Lock Nut 2 so that the insert lines up with the end of Drive Screw 3.
- Lock the nose tip lock nut by turning clockwise with a spanner*.
- Remove the insert from drive screw.

IMPORTANT

Do not press against the drive screw when tool is connected to the air supply with no insert in as the drive screw will start to run axially.

Servicing Instructions

Nose assemblies should be serviced at weekly intervals (see page 10).

- Remove the complete nose assembly using the reverse procedure to the 'Fitting Instructions'.
- Any worn or damaged parts should be replaced with new parts.
- Particularly check wear on the Drive Screw 3.
- Assemble according to fitting instructions (see above).

^{*} Refers to items included in the 74200 Service Kit. For complete list see page 11.



Nose Assemblies

Selection

Nose tips vary in shape according to the insert type. Each nose assembly represents a unique assembly of components which can be ordered individually. All nose assemblies also include a nose tip Lock Nut 2 (part number 07555-00901). Component numbers refer to the illustration on the opposite page. We recommend holding some stock of internal components as items will need regular replacement. Read the Nose Assemblies Servicing Instructions opposite carefully.

				COMPONEN	IT NUMBERS	
INSERT SIZE	COMPLETE TOOL	NOSE ASSEMBLY	1	3	4	5
LARGE F	LANGE INSERTS (969	98,FS58,9408,9418,94	198) + STANDARD NU	JTSERT® (9500) + SQI	Jaresert® (GK08) + I	EUROSERT® (GJ08)
M3	74201-00083	07555-09883	07555-00903	07555-09003	07555-01003	07555-09103
M4	74201-00084	07555-09884	07555-00904	07555-09004	07555-01004	07555-09104
M5*	74201-00085	07555-09885	07555-00905	07555-09005	07555-01005	07555-09105
M5**	74201-00485	07555-09185	07555-00915	07555-09005	07555-01005	07555-09105
M6	74201-00086	07555-09886	07555-00906	07555-09006	07555-01006	07555-09106
M8	74201-00088	07555-09888	07555-00908	07555-09008	07555-01008	07555-09108
4 UNC	74201-00054	07555-09854	07555-00854	07555-09054	07555-00754	07555-09154
6 UNC	74201-00056	07555-09856	07555-00856	07555-09056	07555-00756	07555-09156
8 UNC	74201-00058	07555-09858	07555-00858	07555-09058	07555-00758	07555-09158
10 UNC	74201-00050	07555-09850	07555-00850	07555-09050	07555-00750	07555-09150
1/4 UNC	74201-00048	07555-09848	07555-00848	07555-09048	07555-00748	07555-09148
5/16 UNC	74201-00040	07555-09840	07555-00840	07555-09040	07555-00740	07555-09140
10 UNF	74201-00070	07555-09870	07555-00850	07555-09070	07555-00750	07555-09150
1/4 UNF	74201-00068	07555-09868	07555-00848	07555-09068	07555-00748	07555-09148
5/ ₁₆ UNF	74201-00060	07555-09860	07555-00840	07555-09060	07555-00740	07555-09140
3/16 BSW	74201-00016	07555-09816	07555-00850	07555-09016	07555-00750	07555-09150
1/4 BSW	74201-00018	07555-09818	07555-00848	07555-09018	07555-00748	07555-09148
		THIN SHEE	T NUTSERT® (9468	3, FS38, 9650, 9488)	•
M3	74201-00183	07555-09983	07555-00993	07555-09003	07555-01003	07555-09103
M4	74201-00184	07555-09984	07555-00994	07555-09004	07555-01004	07555-09104
M5	74201-00185	07555-09985	07555-00995	07555-09005	07555-01005	07555-09105
M6	74201-00186	07555-09986	07555-00996	07555-09006	07555-01006	07555-09106
M8	74201-00188	07555-09988	07555-00998	07555-09008	07555-01008	07555-09108
4 UNC	74201-00154	07555-09954	07555-00954	07555-09054	07555-00754	07555-09154
6 UNC	74201-00156	07555-09956	07555-00956	07555-09056	07555-00756	07555-09156
8 UNC	74201-00158	07555-09958	07555-00958	07555-09058	07555-00758	07555-09158
10 UNC	74201-00150	07555-09950	07555-00950	07555-09050	07555-00750	07555-09150
1/4 UNC	74201-00148	07555-09948	07555-00948	07555-09048	07555-00748	07555-09148
10 UNF	74201-00170	07555-09970	07555-00950	07555-09070	07555-00750	07555-09150
1/4 UNF	74201-00168	07555-09968	07555-00948	07555-09068	07555-00748	07555-09148
5/ ₁₆ UNF	74201-00160	07555-09960	07555-00940	07555-09060	07555-00740	07555-09140
3/16 BSW	74201-00116	07555-09916	07555-00950	07555-09016	07555-00750	07555-09150
1/4 BSW	74201-00118	07555-09918	07555-00948	07555-09018	07555-00748	07555-09148
OBA	74201-00130	07555-09930	07555-00996	07555-09030	07555-01006	07555-09106
2BA	74201-00132	07555-09932	07555-00950	07555-09032	07555-00750	07555-09150
4BA	74201-00134	07555-09934	07555-00934	07555-09034	07555-00756	07555-09134
		SUPERSER	® - OPEN AND CLO			
M3	74201-00283	07555-09583	07555-07103	07555-09003	07555-01003	07555-09103
M4	74201-00284	07555-09584	07555-07104	07555-09004	07555-01004	07555-09104
M5	74201-00285	07555-09585	07555-07105	07555-09005	07555-01005	07555-09105
M6	74201-00286	07555-09586	07555-07106	07555-09006	07555-01006	07555-09106
M8	74201-00288	07555-09588	07555-07108	07555-09008	07555-01008	07555-09108
8 UNC	74201-00258	07555-09558	07555-07158	07555-09058	07555-00758	07555-09158
10 UNC	74201-00250	07555-09550	07555-07150	07555-09050	07555-00750	07555-09150
1/4 UNC	74201-00248	07555-09548	07555-07148	07555-09048	07555-00748	07555-09148
8 UNF	74201-00278	07555-09578	07555-07158	07555-09078	07555-00758	07555-09158
10 UNF	74201-00270	07555-09570	07555-07150	07555-09070	07555-00750	07555-09150
1/4 UNF	74201-00268	07555-09568	07555-07148	07555-09068	07555-00748	07555-09148
			HEXSERT® (968	88)		
M3	74201-00683	07555-09283	07555-08103	07555-09003	07555-01003	07555-09103
M4	74201-00684	07555-09284	07555-08104	07555-09004	07555-01004	07555-09104
M5	74201-00685	07555-09285	07555-08105	07555-09005	07555-01005	07555-09105
M6	74201-00686	07555-09286	07555-08106	07555-09006	07555-01006	07555-09106
M8	74201-00688	07555-09288	07555-00998	07555-09008	07555-01008	07555-09108

Places all inserts listed in this section except M5 large flange Thin Sheet Nutsert®
 Places M5 large flange Thin Sheet Nutsert® 09698-00516 ONLY

Servicing the Tool

Regular servicing should be carried out and a comprehensive inspection performed annually or every 500,000 cycles, whichever is

IMPORTANT

The employer is responsible for ensuring that tool maintenance instructions are given to the appropriate personnel. The operator should not be involved in maintenance or repair of the tool unless properly trained.

Daily

- Daily, before use or when first putting the tool into service, pour a few drops of clean, light lubricating oil into the air inlet of the tool if no lubricator is fitted on air supply. If the tool is in continuous use, the air hose should be disconnected from the main air supply and the tool lubricated every two to three hours.
- Check for air leaks. If damaged, hoses and couplings should be replaced by new items.
- If there is no filter on the pressure regulator, bleed the air line to clear it of accumulated dirt or water before connecting air hose
- Check that the nose assembly is correct.
- Check the stroke of the tool is adequate to place selected insert. (See Force Adjustment page 7).
- Inspect the drive screw in the nose assembly for wear or damage. Renew if necessary.

Weekly

Check for oil leaks and air leaks on air supply hose and fittings.

Molykote® 55m Lithium Grease Safety Data

Grease can be ordered as a single item, the part number is shown in the Service Kit page 11.

First Aid

SKIN: Wipe off and wash with soap and water.

INGESTION: No adverse effects are normally expected.

Treat symptomatically.

EYES: Irritant but not harmful. Irrigate with water and seek medical attention.

Scrape up for incineration or disposal on approved site.

Fire

FLASH POINT: 101°C Not classified as flammable.

Suitable extinguishing media: Carbon dioxide, foam, dry powder or fine water spray.

Plastic or rubber gloves should be worn.

Away from heat and oxidising agent.

Servicing the Tool

Service Kit

For all servicing we recommend the use of the Service Kit (part number 74200-99990) supplied in its own plastic case.

74200-99	990 SERVICE KIT	Span	ners are specified	I in inches and across flats unless otherwise	stated
ITEM PART N°	DESCRIPTION	Nº OFF	ITEM PART Nº	DESCRIPTION	N° OFF
07900-00618	PUSHER	1	07900-00393	14mm/15mm SPANNER	1
07900-00619	GUIDE BUSH	1	07900-00409	12mm/13mm SPANNER	1
07900-00478	Ø 3mm PIN PUNCH	1	07900-00626	11mm SPANNER	1
07900-00624	Ø 4mm PIN PUNCH	1	07900-00632	17mm/19mm SPANNER	2
07900-00157	INTERNAL CIRCLIP PLIERS	1	07900-00468	1.5mm ALLEN KEY	1
07900-00161	EXTERNAL CIRCLIP PLIERS	1	07900-00922	2mm ALLEN KEY	1
07900-00625	SOFT MALLET	1	07900-00469	2.5mm ALLEN KEY	1
07900-00623	25mm SOCKET	1	07900-00351	3mm ALLEN KEY	1
07900-00006	SPATULA	1	07900-00224	4mm ALLEN KEY	1
07900-00434	32mm SPANNER	1	07900-00225	5mm ALLEN KEY	1
07900-00621	28mm SPANNER	1	07900-00620	12mm ALLEN KEY	1
07900-00637	17mm SPANNER	1	07900-00456	T BAR	1
07900-00643	PUSHER KNOB	1	07992-00075	MOLYKOTE 55M (100 gm TUBE)	1
07900-00726	BULLET	1	07900-00627	PLASTIC CASE	1

Maintenance

Every 500,000 cycles the tool should be completely dismantled and components replaced where worn, damaged or when recommended. All 'O' rings and seals should be replaced with new ones and lubricated with Molykote® 55M grease before assembling.

IMPORTANT

Safety Instructions appear on page 4.

The employer is responsible for ensuring that tool maintenance instructions are given to the appropriate personnel.

The operator should not be involved in maintenance or repair of the tool unless properly trained.

The air line must be disconnected before any servicing or dismantling is attempted unless specifically instructed otherwise.

It is recommended that any dismantling operation be carried out in clean conditions.

Before proceeding with dismantling, empty the oil from the tool. Remove Oil Plug 35, Oil Seal Washer 36, Bleed Screw 10 and Oil Seal Bleed Washer 9 from the handle assembly and drain the oil into a suitable container.

Prior to dismantling the tool it is necessary to remove the nose assembly. For simple removal instructions see the nose assemblies section, pages 8-9.

Tool Servicing

For total tool servicing we advise that you proceed with dismantling of sub-assemblies in the order shown below.

Pneumatic Cylinder

- Remove Rubber Base 74
- · Place tool, base uppermost in vice fitted with soft jaws.
- Using a spanner*, unscrew Base Casing 75. Pneumatic Piston 68 should move upward under Spring 65 pressure (it may be necessary to exert hand pressure to Pneumatic Piston 68).
- Remove 'O' Ring 71.
- Withdraw Pneumatic Piston 68.
- Remove Lip Seal 69 and 'O' Rings 78 and 28.
- Hold Pneumatic Piston Rod 66 in soft vice jaws to avoid scratching rod diameter.
- Separate Pneumatic Piston Rod 66 from Pneumatic Piston 68 by unscrewing piston rod fastening Bolt 76 using a spanner*.
- Inspect Air Supply Tube 79 for damage or distortion. (Air tube is screwed internally into handle and set in position with Loctite® 222) If it is 100% necessary to remove air tube, the base of the air tube will require warming to a temperature of 100°C to soften the Loctite® adhesive. The Air Supply Tube 79 can then be unscrewed from the handle using an Allen key*.
- Check Spring 65 is not distorted or damaged.
- · Replace any damaged seals and springs
- Assembly is in reverse order to dismantling.
- To replace Piston Rods 67: they are screwed and locked with Loctite[®] 222 into Base Casing 75. To remove them it may be
 necessary to warm up the base of the piston rod to 100°C to soften Loctite[®] 222. The piston rods can be then removed with a vice.

Rod Guide

- With tool in upside down position in vice, unscrew Rod Guide 62 using a spanner* and T-bar*.
- Withdraw Rod Guide 62
- Unscrew Adaptor Nut **64** using an Allen key*, remove Lip Seal **63** and 'O' Ring **61**.
- Remove 'O' Ring 60.
- Replace any damaged seals.
- Assembly is in reverse order to dismantling.

Trigger

- With tool held in vice, remove Pivot Pin 38 using a pin punch*.
- Remove Trigger 40, Roller Pin 42, Roller 41 and Push Wedge 39.
- Gently push on the head of Trigger Rod 43 and remove together with 'O' Rings 48 and 44, Guide 45, Lip Seal 46 and Valve Locking Plug 47.
- Assembly is in reverse order to dismantling. Ensure lip of Lip Seal 46 is towards head of tool.

Swivel Air Inlet (74200-12700)

- Remove Flexible Rubber Cover 88
- Using flat spanner remove Air Supply Assembly 115 and Bridge Washer 95.
- Unscrew Sleeve 70.
- Using circlip pliers remove Circlip 97 and Sintered Filter 98.
- Assemble in reverse order of dismantling.
- * Refers to items included in the 74200 Service Kit. For complete list see page 11. Item numbers in **bold** refer to the General Assembly drawing and Parts List (pages 14-15).

Maintenance

Differential Valve

- Using special flat spanner* unscrew Adaptor Nut 58, withdraw and remove Spring 54 and 'O' Ring 55.
- Remove Threaded Pin 50 and Deflector 49.
- Using a spanner* remove Silencer 59 and nylon Washer 51.
- Push Valve Piston 57 out from its housing together with 'O' Rings 56, 53 and 52.
- Check 'O' Rings 56, 55, 53 and 52 for damage, Spring 54 for distortion and renew if required.
- Assemble in reverse order of dismantling.

Head Assembly

- Remove Nose Casing 1, Adaptor Nut 2 and 'O' Ring 4.
- Using spanners* remove Spindle Connector 3 and Lock Nut 6.
- Using circlip pliers* remove Circlip 11 and Washer 99.
- Remove 'O' Ring 4.
- Renew any damaged seals.
- Assemble in reverse order of dismantling.

Rear Casing

- Using an Allen key* remove two Screws 33 securing Rear Casing 26 and remove.
- · Remove Silencer 25 from inside rear casing.
- Assembly in reverse order of dismantling

Distributor

- Using an Allen key* remove two Screws 7.
- Withdraw Distributor 27 together with Ball 18, Pushrod 17 and Spring 15, taking care not to drop Ball 18.
- Hold Distributor 27 in soft jaw vice and using circlip pliers remove Circlip 21.
- Remove Silencer 23 and Spring 22.
- Pull out Piston 29 together with three 'O' Rings 28.
- Using an Allen key* remove four countersunk socket head Screws 19 and withdraw Stroke Stop 16.
- Pull out two Air Supply Tubes 32 and four 'O' Rings 31.
- · Renew any damaged seals.
- Assemble in reverse order of dismantling.

Hydraulic Piston and Air Motor Assembly (74200-12610)

- Wrap adhesive tape around Hydraulic Piston 14 thread and move assembly backwards slowly and firmly.
- Using circlip pliers* remove Circlip 11 and Front Seal 8.
- Using two spanners* separate the Hydraulic Piston 14 from Air Motor Casing 24. Shim Adjustment Ring 34, Movement Pivot 5, 'O Ring 13 and Lip Seal 12 will come out with Hydraulic Piston 14.
- Remove 'O' Ring 13 and Lip Seal 12
- Remove air motor assembly out of Air Motor Casing 24, using circlip pliers*remove Circlip 107, then tap Air Motor Casing 24 on bench to
 free components
- Parts 100 to 113 (not including Circlip 107) can be pulled out as an assembly, taking care not to drop Pin 106.
- Remove Bearing 108, Planet Gear Spindle 100, three Planets 101, Planet Gear 109 and Spacer 102.
- Using a soft mallet tap splined head of Rotor 111.
- Bearing 110 and Front End Plate 103 will come out with Stator 104 and five Rotor Blades 105. (Rotor 111 remains in place).
- Place Rear End Plate 112 in vice with soft jaws.
- Using a pin punch* tap centre of Rotor 111 to remove Bearing 113. (turn Rotor 111 upside down and Bearing 113 will come out).
- When assembling air motor, rear side of Rotor 111 must just touch Rear End Plate 112 without any axial gap, (any existing gap will disappear when Bearing 113 is fully located).
- When inserting air motor into Air Motor Casing 24 carefully align parts so that Pin 106 locates in centre hole between spin on/off ports of Stator 104 and Rear End Plate 112.
- When assembling Hydraulic Piston 14 onto air motor assembly, tighten parts by hand and blow air into one of the outer ports of air Motor Casing 24, checking to see air motor rotates freely.
- When assembling front Lip Seal 12 ensure larger diameter faces rear of tool.
- Renew any damaged seals.
- Assemble in reverse order to dismantling.

Pressure Switch Removal

See page 16.

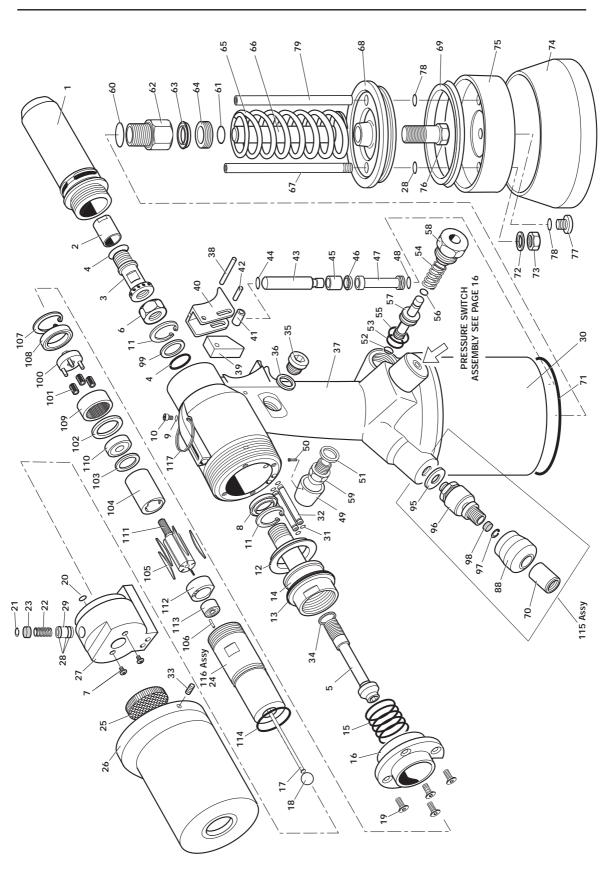
IMPORTANT

Check the tool against daily and weekly servicing. Priming is ALWAYS necessary after the tool has been dismantled and prior to operating

* Refers to items included in the 74200 Service Kit. For complete list see page 11. Item numbers in **bold** refer to the General Assembly drawing and Parts List (pages 14-15).



General Assembly of Base Tool 74201-12000

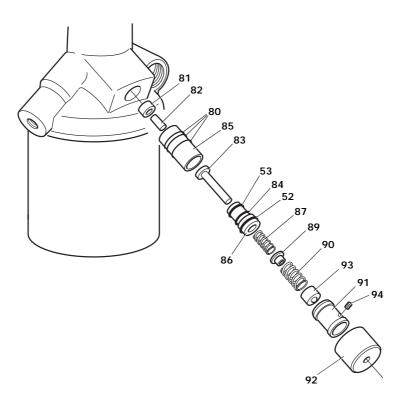


Parts List for 74201-12000

OTY ITEM PART N° 1 81 74201-12081 1 82 74201-12083 1 83 74201-12084 1 84 74201-12085 1 84 74201-12086 1 84 74201-12086 1 86 74201-12087 1 87 74201-12089 1 87 74201-12090 1 87 74201-12091 1 87 74201-12093 2 92 74201-12094 1 90 74201-12094 1 90 74201-12094 1 90 74201-12094 1 90 74201-12094 1 90 74201-12094 1 90 74201-12094 1 90 74201-12094 1 90 74201-12094 1 90 74201-12094 1 100 74201-12094 1 10						7420	74201-12000 PARTS LIST					
7420012001 MOSE CASING 1 4 7420012022 ROLLER PN 1 8 7420112082 7420012004 CARDOLI ZOAD CADAPTOR MIT (JRT DO NB) 1 42 7420012022 ROLLER PN 1 8 7420112082 7420012004 SPRUJE CONNECTOR 1 4 7420012020 PORGAGO COSTOR 1 8 7420112082 7420012004 SPRUJE CONNECTOR 1 4 7420012012 PORGAGO COSTOR 1 8 7420112083 7420012007 CARGADO COSTOR 1 4 7420012018 MALE 1 8 7420112083 7420012007 MARCADO LEGAL 1 4 7420012018 MALE 1 8 7420012083 7420012009 MARCADO LEGAL 1 4 7420012012 MARCADOLICAR ROLL 1 8 7420112083 7420012009 MARCADOLICAR ROLL 1 4 7420012021 MARCADOLICAR ROLL 1 8 7420112083 7420012009 MARCADOLICAR ROLL 1	ITEM			OTY ITE	M	PART N°	DESCRIPTION	QTY	ПЕМ	PART N°	DESCRIPTION	QTY
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OYODIO SCONZOBE OYNOBIAGE	03	74200-12044	SPINDLE CONNECTOR				TRIGGER ROD	1	83	74201-12083	PISTON	1
742001-2006 MONDRIBERT PRYOT 1 45 742001-2006 ILPSEA 1 85 74201-12008 1 85 74201-12008 1 74201-12008 1 74201-12008 1 87 74201-12008 1 74201-12009 1 87 74201-12009 1 74201-12009 1 87 74201-12009 1 87 74201-12009 1 87 74201-12009 1 87 74201-12009 1 88 74201-12009 1 74201-12009 1 88 74201-12009 1 89 74201-12009 1 89 74201-12009 1 89 74201-12009 1 80 74201-12008 1 90 74201-12009 1 90 74201-12009 1 90 74201-12009 1 90 74201-12009 1 1 74201-12009 1 1 74201-12009 1 1 74201-12009 1 1 74201-12009 1 1 74201-12009 1 74201-12009 1 1<	04	07003-00028	_			7003-00315	'O' RING	1		74201-12084	'O' RING	-
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74200-12049 OIL SEAL BLEED WASHER 1 49 74200-12304 0 74200-12049 0 74200-12049 0 74200-12090 0 74200-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 0 74201-12090 74201-12090 0 74201-12090	80	07265-02004				70003-00027	'O' RING	1	88	74290-03030	FLEXIBLE RUBBER COVER	1
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74200-12121 ÜRING 1 54 74200-12014 PIRNG 2 93 74201-12004 74201-12014 HYDRAULC PSTON 1 54 74200-12014 1 94 74201-12004 74201-12015 SPRING 1 56 07003-00068 0° RING 1 96 74200-13004 74201-12016 STRINGE STOP 1 56 07003-00068 0° RING 1 96 74200-13004 74200-12079 BALL 1 56 07003-00103 VALVE PISTON 1 97 74200-13004 74200-12079 BALL 1 57 74200-12024 VALVE PISTON 1 97 74200-12004 74200-12079 BALL 1 57 74200-12024 VALVE PISTON 1 97 74200-12004 74201-12029 BALL 1 6 74200-12014 JP SELINCER 1 10 74200-12004 74201-12029 SIENING 1 6 74200-12014 JP SELINCER 1	12	74200-12053	_			7003-00046	'O' RING	2	_	74201-12092	CASING COVER	1
74201-12014 FHYDRAULIC PISTON 1 54 74201-1204 SPRING 1 94 74201-1209 74201-12015 SRRING 1 55 70203-00036 O'RING 1 95 74200-12094 74201-12016 STROKE STOP 1 56 74200-12028 WALKE PISTON 1 97 74200-12094 74201-12016 STROKE STOP 1 56 74200-12028 WALKE PISTON 1 97 74200-12094 74201-12020 BALL 1 58 74200-12028 WALKE PISTON 1 97 74200-12094 74201-12020 BALL 1 58 74200-12024 1/8 SLENCER 1 97 74200-12094 74201-12021 GRELIJE 1 60 74200-12014 1/8 SLENCER 1 1 1 74200-12094 74201-12022 SIENNER 1 61 74200-12014 1 1 1 1 74200-12064 74201-12022 SIENNER 1 1 <td< td=""><td>13</td><td>74200-12121</td><td>'O' RING</td><td>1 5</td><td></td><td>7003-00026</td><td>'O' RING</td><td>2</td><td>93</td><td>74201-12093</td><td>REGULATOR</td><td>1</td></td<>	13	74200-12121	'O' RING	1 5		7003-00026	'O' RING	2	93	74201-12093	REGULATOR	1
74201-12016 SPRING 1 56 OTOG 3000086 O'RING 1 96 74260-03031 74201-12016 STROKK STOP 1 56 700300004 O'RING 1 96 74290-13036 74200-12020 PUSHROD 1 57 7420-12028 VARD 1 96 74200-12036 74200-12020 MASCREW 1 6 74200-12034 1 1 97 74200-12036 74200-12020 MASCREW 1 6 74200-12034 1 1 99 74200-12036 74200-12020 O'RING 0 700-12034 1 1 1 1 1 74200-12036 74201-12022 SIENCRER 1 6 74200-12034 O'RING 1	14	74201-12014	HYDRAULIC			1200-12104	SPRING	1	94	74201-12094	GRUB SCREW	1
74201-12016 STROKE STOP 1 56 OTO03000040 O'RING 1 74 290-03031 74200-12078 PUSHROD 1 57 74200-12028 WALE PISTON 1 97 74290-03091 74200-12029 BALL 3 74200-12024 ADAPTOR NUT 1 97 74200-12097 74200-12020 BALL 1 6 7000-30010 0'RING 1 0 74200-12095 74201-12021 CIRCLIP 1 6 7000-30010 0'RING 1 10 74200-12095 74201-12022 SPRING 1 6 7000-30013 CIRCLIP 1 1 10 74200-12095 74201-1202 SPRING 1 6 74200-12015 ROBGINE 1 10 74200-12096 74201-1202 SILENCER 1 6 74200-12015 ROBGINE 1 10 7555-0920 74201-1202 SILENCER 1 6 74290-0301 PINIMATIC PINIMATIC PINIMATIC PINIMATIC PINIMATIC PINIMATIC PI	15	74201-12015	SPRING			7003-00086	'O' RING	1		07265-03021	BRIDGE WASHER	1
74200-12078 PUSHROD 1 57 74200-12028 VALVE PISTON 1 97 74200-12096 74200-12079 BALL 1 58 74200-12023 AMAPIOR NUIT 1 98 74200-12096 74200-12029 Ornoscolool Al AS CREW 4 5 74200-12034 1 98 74200-12096 74201-12020 Ornoscolool Ornoscolool Ornoscolool Ornoscolool 1 1 10 74200-12069 74201-12021 CRICLIP Ornoscolool Ornoscolool Ornoscolool 1 1 10 74200-12069 74201-12021 SILENCER Al AZOO-12014 UP ENDA 1 10 74200-12069 74201-12024 SILENCER Al AZOO-12014 UP ENDA 1 10 7755-0920 74201-12024 SILENCER Al AZOO-12014 UP ENDA 1 10 7755-09210 74201-12024 SILENCER Al AZOO-12014 UP ENDA 1 10 7755-09210 74201-12024	16	74201-12016	STROKE ST			7003-00040	'O' RING	-	96	74290-03031	AIR INLET BLOCK	-
74200-12079 BALL 1 58 74200-12027 ADAPTOR NUT 1 98 74200-12099 74290-03004 MASCREW 4 59 74200-12034 1/8 SILENCER 1 99 74200-12099 7420-1-12020 O'RING 1 6 07003-0012015 O'RING 1 10 0755-09208 7420-1-12022 SERING 1 6 74200-12015 CORRIGE 1 10 0755-09208 7420-1-1202 SERING 1 6 74200-12014 LIP SEAL 1 10 07555-09208 7420-1-1202 SIENNER AIR MOTOR CASING 1 6 74200-12013 BADRIOR 1 1 10 07555-09208 7420-1-1202 SIENNER AIR MOTOR CASING 1 6 74200-12013 BADRIOR 1 <td>17</td> <td>74200-12078</td> <td></td> <td>1 5</td> <td></td> <td>1200-12028</td> <td>VALVE PISTON</td> <td>1</td> <td>16</td> <td>74200-12097</td> <td>CIRCLIP</td> <td>1</td>	17	74200-12078		1 5		1200-12028	VALVE PISTON	1	16	74200-12097	CIRCLIP	1
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74201-12020 CV RING 1 60 07003-00100 O'RING 1 1 10 74200-12063 74201-12021 CIRCLIP 1 61 07003-00134 O'RING 1 1 10 74200-12064 74201-12022 SPRING 1 62 74200-12014 LIP SEAL 1 10 74200-12064 74201-12023 SLENCER 1 63 7420-12014 LIP SEAL 1 10 7755-0920 74201-12025 SLENCER 1 64 7420-12013 ADAPTOR NUT 1 10 7755-0920 74201-12025 SLENCER 1 64 7420-12013 PIRIUMATIC PISTON ROD 1 10 7755-0920 74201-12029 PISTRBUTOR 1 64 7429-003021 PIRIUMATIC PISTON ROD 1 10 7755-0920 74200-12026 PISTRBUTOR 1 67 7429-003021 11 10 7755-0920 74200-13020 O'RING 1 7 7729-003022	19	74290-03004	M4 SCREW			1200-12034	1/8 SILENCER	1	66	74200-12099	WASHER	3
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74201-12022 SPRING 1 62 742001-2014 ROD GUIDE 1 102 742001-2006 74201-12023 SILENCER 1 63 742001-2014 ILP SEAL 1 103 74200-12006 74201-12024 AIR MOTOR CASING 1 64 74200-12014 ILP SEAL 1 103 07555-0921 74201-12024 AIR MOTOR CASING 1 64 74200-12015 SPRING 1 1 104 07555-0921 74201-12025 SILENCER 1 6 74290-0301 PINEUMATIC PSTON ROD 1 106 07555-0921 74201-12029 PISTON 1 6 74290-0301 ILP SEAL 1 10 7420-1206 74201-12029 PISTON 1 6 74290-03021 ILP SEAL 1 1 1 1 7420-1206 74290-03009 1 1 1 74290-03024 MASHER 1 1 1 1 1 1 1 1 1	21	74201-12021				7003-00134	'O' RING	1	_	07555-09208	PLANET	3
74201-12023 SILENCER 1 63 74200-12014 LIP SEAL 1 103 0755-09210 74201-12024 AIR MOTOR CASING 1 64 74200-12013 ADAPTOR NUT 1 104 0755-09211 74201-12025 SILENCER 1 65 7755-00205 SPRING 1 10 0755-0921 74201-12025 SILENCER 1 66 74290-03019 PISTON ROD 1 10 0755-0921 74290-03026 PISTRIBUTOR 1 66 74290-03019 PISTON ROD 2 107 74200-1206 74290-03022 O'RING A 68 74290-0302 PISTON ROD 2 107 74200-1206 74290-03012 PISTON A 68 74290-0302 PISTON 1 10 74200-1206 74290-03003 PISTON A 74290-0302 PISTON 1 1 1 10 74200-1206 74290-03004 A A 74290-0302 PISTON	22	74201-12022	_		_	1200-12015	ROD GUIDE	1	102	74200-12066	SPACER	1
74201-12024 AIR MOTOR CASING 1 64 74200-12013 ADAPTOR NUT 1 1 104 0755-0921 74201-12025 SILENCER 1 65 74250-0205 SPRING 1 10 0755-0921 74201-12025 SILENCER 1 66 74290-03018 PISTON ROD 1 10 0755-0921 74290-03002 PISTRIBUTOR 1 67 74290-03019 PISTON ROD 2 10 74200-1206 74290-03022 O'RING 4 68 74290-0302 ILP SEAL 1 10 74200-1206 74290-03013 PINEUMATIC CYLINDER LINER 1 7 74290-0302 ILP SEAL 1 10 74200-1206 74290-03013 PINEUMATIC CYLINDER LINER 1 7 74290-0302 ILP SEAL 1 1 1 10 755-0920 74290-03004 AIR SUPPLY TUBES 2 7 74290-03025 INJT 2 1 1 1 1 1 1 <t< td=""><td>23</td><td>74201-12023</td><td></td><td>1 6</td><td></td><td>$\overline{}$</td><td>LIP SEAL</td><td>-</td><td></td><td>07555-09210</td><td>FRONT END PLATE</td><td>_</td></t<>	23	74201-12023		1 6		$\overline{}$	LIP SEAL	-		07555-09210	FRONT END PLATE	_
74201-12025 SILENCER 1 65 0755500205 SPRING 1 105 07555-09218 74290-03006 REAR CASING 1 64 74290-03018 PINEUMATIC PISTON ROD 1 10 07555-09216 74290-0302 O'RING 4 68 74290-03021 IPSEAL 1 10 07555-09216 74290-0302 O'RING 4 68 74290-03021 IPSEAL 1 10 74200-12062 74290-0302 O'RING A 4 7 74290-03021 IPSEAL 1 1 10 74200-12062 74290-03013 PINEUMATIC CYLINDER LINER 1 7 74290-03021 IPSEAL 1 <t< td=""><td>24</td><td>74201-12024</td><td>AIR MOTOR</td><td></td><td></td><td>1200-12013</td><td>ADAPTOR NUT</td><td>1</td><td>_</td><td>07555-09211</td><td>STATOR</td><td>1</td></t<>	24	74201-12024	AIR MOTOR			1200-12013	ADAPTOR NUT	1	_	07555-09211	STATOR	1
74290-03006 REAR CASING 1 66 74290-03018 PNEUMATIC PISTON ROD 1 106 07555-09216 7420-1-12027 DISTRIBUTOR 1 67 74290-03019 PISTON ROD 2 107 74200-12061 7420-1-12027 O'RING 4 68 74290-03021 LIP SEAL 1 108 74200-12062 7420-1-12029 PISTON 1 69 74290-03021 LIP SEAL 1 109 74200-12062 7420-0-12060 O'RING 1 7 74290-03023 O'RING 1 1 109 74200-12062 7420-0-12060 O'RING 1 7 74290-03023 O'RING 1 1 1 74290-03024 AMSHER 4 1 1 74290-03024 74290-03014 SCREW 2 7 74290-03025 NUT 2 1 1 1 7755-09214 74200-12055 SHIM ADJUSTIMENT RING 1 7 74290-03026 RIBBER BASE 1 <t< td=""><td>25</td><td>74201-12025</td><td>SILENCER</td><td></td><td>_</td><td>7555-00205</td><td>SPRING</td><td>1</td><td>-</td><td>07555-09213</td><td>ROTOR BLADES</td><td>5</td></t<>	25	74201-12025	SILENCER		_	7555-00205	SPRING	1	-	07555-09213	ROTOR BLADES	5
74201-12027 DISTRIBUTOR 1 67 7429003019 PISTON ROD 2 107 74200-12062 74290-03022 O'RING 4 68 74290-03020 PNEUMATIC PRITON 1 108 74200-12062 74290-03012 PISTON 1 69 74290-03021 LIP SEAL 1 109 74200-12062 74290-03013 PINEUMATIC CYLINDER LINER 1 7 74290-03021 1/4 SIEVE 1 1 109 74200-12062 74290-03003 O'RING O'RING 4 7 74290-03023 O'RING 1 1 10 755-09204 74290-03004 AIR SUPPLY TUBES 2 7 74290-03025 NUT 2 1 1 7055-09214 74290-03014 SCREW 2 7 74290-03025 RUBER BASE 1 1 1 1 755-09214 74290-03015 OIL PLUG 1 1 7 74290-03028 ROBEC CASING 1 1 1 1	26	74290-03006	_	1 6		4290-03018	PNEUMATIC PISTON ROD	-	-	07555-09216	PIN	_
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	40	74200-12025		1		4201-12080	'O' RING	3	\exists			

General Assembly of Base Tool 74201-12000

Pressure Switch Assembly



Pressure Switch Removal

- Remove Casing Cover 92.
- Using spanner remove Rear Casing 91.
- Remove Spring 90 and Spring Retainer 89 from Regulator 93.
- Loosen Grub Screw 94 to allow Regulator 93 to be unscrewed from Rear Casing 91.
- Remove Spring 87 from Piston 83 and pull out Piston 83 which will release Cylinder 86 with three 'O' Rings 52, 53 and 84.
- Pull out Liner 85 with three 'O' Rings 80.
- Remove Plug 82 from Lip Seal 81 located in the main tool body.
- Remove Lip Seal 81 noting orientation.
- Replace seals and parts as required.
- Assemble in reverse order of dismantling.

Item numbers in **bold** refer to the Parts List on page 15.

Priming

Priming is ALWAYS necessary after the tool has been dismantled and prior to operating. It may also be necessary to restore the full stroke after considerable use, when the stroke may have been reduced and fasteners are not now being fully placed by one operation of the trigger.

Oil Details

The recommended oil for priming is Hyspin® VG32 available in 0.5l (part number 07992-00002) or one gallon containers (part number 07992-00006). Please see safety data below.

Hyspin® VG 32 Oil Safety Data

First Aid

SKIN:

Wash thoroughly with soap and water as soon as possible. Casual contact requires no immediate attention. Short term contact requires no immediate attention.

INGESTION:

Seek medical attention immediately. DO NOT induce vomiting

FVFS

Irrigate immediately with water for several minutes. Although NOT a primary irritant, minor irritation may occur following contact.

Fire

Flash point 232°C. Not classified as flammable.

Suitable extinguishing media: CO2, dry powder, foam or water fog. DO NOT use water jets.

Environment

WASTE DISPOSAL: Through authorised contractor to a licensed site. May be incinerated. Used product may be sent for reclamation. SPILLAGE: Prevent entry into drains, sewers and water courses. Soak up with absorbent material.

Handling

Wear eye protection, impervious gloves (e.g. of PVC) and a plastic apron. Use in well ventilated area.

Storage

No special precautions.

Priming Procedure

IMPORTANT

All operations should be carried out on a clean bench, with clean hands in a clean area.

Ensure that the oil is perfectly clean and free from air bubbles.

Care MUST be taken at all times, to ensure that no foreign matter enters the tool, or serious damage may result.

The tool must remain on its side throughout the priming sequence

- Place tool on its side, Oil Plug 35 side up.
- With an Allen key, unscrew Oil Plug 35 and remove with Oil Seal Washer 36.
- Fill tool with priming oil rocking gently to expel air.
- Replace Oil Seal Washer 36 and Oil Plug 35 and tighten.
- You must now bleed the tool. This operation is to ensure air bubbles are eliminated from the oil circuit.
- Ensuring oil Bleed Screw 10 is fully tightened unscrew by ONE TURN only, using an Allen key. Connect the tool to the air supply and depress the Trigger 40.
- Wait until oil appears all around Oil Bleed Screw 10 then re-tighten. Wipe excess oil away.
- Release the Trigger 40.
- Using an Allen key remove Oil Plug 35 and Oil Seal Washer 36.
- Top-up with priming oil to reset level. Replace Oil Seal Washer 36 and Oil Plug 35 and fully tighten.
- · It is necessary to fit the appropriate nose equipment and adjust the tool stroke prior to operating the tool.

Item numbers in **bold** refer to General Assembly drawings and Parts List (pages 14-15).



Fault Diagnosis

Symptom	Possible Cause	Remedy Pag	e Ref
Pneumatic motor	Air leak from motor	Check for worn seals. Replace	13
runs slowly	Low air pressure	Increase	7
	Air way blockage	Clear restriction in air supply	
	Worn drive screw	Replace	8
	Vanes jamming	Lubricate tool through air inlet	
Insert does not	Force incorrectly set	Adjust	7
deform properly	Air pressure outside the tolerance	Adjust	7
	Low oil level	Prime tool	17
	Insert out of grip	Check grip range of Insert	
Drivescrew turns	Worn or damaged drive shaft	Replace	
independent of	Worn or damaged drive screw	Replace	8
motor	Adaptor nut loose	Tighten	8
	Lock Nut 6 missing	Fit new lock nut	13
Insert will not	Incorrect Insert thread size	Change to correct insert	
place onto	Incorrect drive screw fitted	Change to correct drive screw	
drivescrew	Worn or damaged drive screw	Replace	
	Nose equipment incorrectly assembled	Disconnect air supply, re-fit nose equipment carefully	8-9
Tool is jammed	Excessive force/	DO NOT DEPRESS TRIGGER. Unlock	
on placed insert	Defective insert/	force locking device.	
	Worn or defective drive screw	Depress trigger. Tool	
		should spin off. Reset force. If unable to reset,	
		disconnect air to tool. Insert a	
		4 mm Ø pin through nose casing slots	
		into Spindle Connector 3. Turn until drive scre	ew
		withdraws from the insert. Use new insert an	d
		drive screw.	
Drive screw	Force of tool excessive	Re-set force	
breaks	Side load on drive screw	Hold tool square to application when placing Insert	

continued overleaf

Item numbers in **bold** refer to General Assembly drawings and Parts List (pages 14-15). Other symptoms or failures should be reported to your local $\mathsf{Avdel}^{\$}$ authorised distributor or repair centre.



Fault Diagnosis

Symptom	Possible Cause	Remedy I	Page Ref
Tool does not	Screw adaptor nut loose	Tighten	
spin on	No air supply	Connect	7
	Insufficient gap between Lock Nut 6 and Spindle Connector 3	Adjust gap to between 1.5 mm and 2mi	m 13
	Pushrod 17 too short	Replace	13
	Air motor jammed	Lubricate tool at air inlet. If insufficient	
	·	dismantle and clean air motor thoroughly	l
Trigger	Static friction	Depress trigger a few times	
inoperative	Low air pressure	Increase air pressure	
•	Valve piston remains stuck	Depress trigger several times. Lubricate	
	·	tool through air inlet. If unsuccessful,	
		dismantle, clean and lubricate trigger elements	
Drive screw does	Lip Seal 46 is defective	Replace	12
not return and/or keeps spinning off			
Tool does not	Adaptor Nut 2 loose	Tighten	
spin off	No air supply	Connect	
	Turn Regulator 93 * half turn	Set tool force	7
	Distributor stuck	Lubricate	
	Air motor jammed	Lubricate tool at air inlet. If insufficient	
	-	dismantle and clean air motor	
		thoroughly	

Notes

Notes

Notes

Declaration of Conformity

We, Avdel UK Limited, Watchmead Industrial Estate, Welwyn Garden City, Herts, AL7 1LY declare under our sole responsibility that the product:

Model Type 74201

Serial No.

to which this declaration relates is in conformity with the following standards:

EN292 part 1 and part 2

ISO 8662 part 1 EN 60742/0695 ISO 3744 EN 50081-1 ISO PREN792 part 14 EN 55014

following the provisions of the Machine Directive 2006/42/EC

Delle fore Michele

M. Delle Fave - Quality Manager

Welwyn Garden City - date of issue



This box contains a power tool which is in conformity with Machines Directive 2006/42/EC. The 'Declaration of Conformity' is contained within.



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