

Service Manual



TX2000

Battery Powered Tool

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This manual is only for use by Avdel® authorised distributors and repair centres.

IMPORTANT: The warranty is invalidated if the installation tool is not identified with a relevant serial number label. The label is positioned internally, at the base of the handle, on the left moulding, 41. When replacing the moulded body a new label, 83, must be inserted and marked by hand with the tool's original serial number.

Annual Service

Annual/500,000 Cycle Service

- Every 500,000 cycles the tool should be completely dismantled and new components should be used where worn, damaged or recommended. All 'O' rings and seals should be renewed and lubricated with MolyKote 111 grease before assembling.
- For an easy complete service, Avdel offer a complete service kit as detailed below.

Service Kit: 71600-99990 Spanners are specified in inches and across flats unless otherwise stated

Part No.	Description	Part No.	Description
07900-00006	Spatular	07900-00748	Threaded Sleeve Bullet
07900-00008	⁷ / ₁₆ x ¹ / ₂ Spanner	07900-00747	Valve Seat Tool
07900-00012	9/16 x 5/8 Spanner	07900-00749	Threaded Sleeve Tool
07900-00015	⁵ / ₈ x ¹¹ / ₁₆ Spanner	07900-00750	Valve Needle Sleeve
07900-00243	Screwdriver - Small	07900-00751	3mm Allen Key - Short Reach
07900-00333	Screwdriver - Medium	07900-00753	Circlip Pliers - Small
07900-00469	2.5mm Allen Key	07900-00754	Priming Pump
07900-00737	Piston Seal Sleeve	07900-00755	Grease - MolyKote 111 - 100g tube
07900-00738	Piston Seal Tool	07900-00756	Loctite® 243 Threadlocker
07900-00739	Piston Bullet	07900-00757	Scalpel
07900-00740	Cylinder Collar	07900-00760	Pozi Screwdriver
07900-00741	Guide Tube	07900-00788	Service Kit Storage Case
07900-00742	Insertion Rod	07900-00768	Reservoir Bullet
07900-00743	End Cap Assembly Tool	07900-00769	Trigger Tool
		07992-00020	Grease - Moly-Lithium

Before dismantling:

- Disconnect the battery before any servicing or dismantling is attempted, unless specifically instructed otherwise.
- Care must be taken at all times to ensure that conditions are clean so that no foreign matter enters the tool or serious damage may result.
- Empty the oil from the tool following the first three steps of the priming procedure. Refer to the priming procedure on pages 14 and 15 of the Instruction Manual.
- Remove the nose equipment.

For a complete service of the tool, we advise that you proceed with dismantling of sub-assemblies in the order shown on page 5. After dismantling the tool we recommend that you replace all seals.

On reassembly it is essential to prime the tool and fit an appropriate nose assembly prior to operating.



Moulded Body Assembly

IMPORTANT: The warranty is invalidated if the installation tool is not identified with a relevant serial number label. The label is positioned internally, at the base of the handle, on the left moulding, 41. When replacing the moulded body a new label, 83, must be inserted and marked by hand with the tool's original serial number.

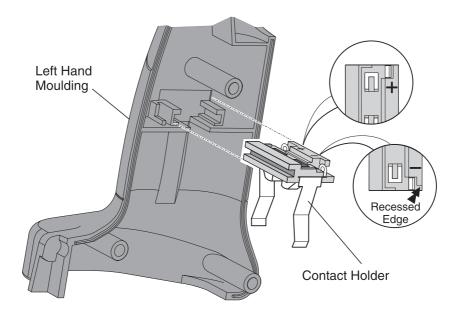
The moulded body assembly includes items **1**, **2**, **33**, **41** to **45**, **47**, **48**, **53**, **54**, **81** and **83**. These parts are only available as a complete Body Moulding Assembly Kit (part number 71600-99600), unless a minimum order quantity is provided in the parts list.

- Remove and discard label **42** from the right moulding **43** to reveal the hidden screw.
- Remove the nose tip spanner 53 and two nose tips from the moulded body.
- Place the tool on its side and using the pozi screwdriver unscrew all eight pozi screws 45 in the moulded body.
- Remove the right moulding 43 leaving the main internal mechanism within the left moulding 41 as shown on page 10.
- Remove the vent screen **54**, battery retainer spring **47** and dowel pin **48** from the left moulding **41**.
- Before removing the main internal mechanism ensure that the electrical control circuit 5 and the reservoir 73 are released from the
 mounting points within the moulding.
- Holding the tool by the motor and gearbox assembly 3 remove the main internal mechanism from the moulding.

Assemble in reverse order to dismantling noting the following points:

- Place the main internal mechanism into the left moulding 41, first ensuring that the electrical control circuit 5 and the reservoir 73 are correctly placed within the mounting positions provided. The circuit board must be positioned so that the heat sink is facing forward and the black and blue wires are at the top. The contact holder 4 must be positioned with the positive symbol in the left moulding 41 as shown in the diagram below.
- The contact holder is designed to enable correct orientation in the mouldings. Care must be taken to ensure that the raised portion on the right moulding **43** fits within the indent on the negative side of the contact holder **4**.
- When replacing the right moulding **43** take care to ensure that no wires are trapped and correct alignment with the electrical control circuit **5** and the vent screen **54** are achieved.
- When the moulded body is fully assembled with all eight pozi screws 45, insert new case label 42 on the right moulding 43.

IMPORTANT: Correct orientation of the contact holder 4 must be achieved when assembling into mouldings 41 and 43. Incorrect assembly will cause short circuit and failure of electrical control circuit.



Pump Assembly

The pump assembly includes items **29**, **35**, **36**, **37**, **49**, **51** and one of the following plunger seal combinations, either seals (**37** and **50** 2 off) or (**37**, **84** and **85**). These parts are only available <u>fully assembled</u> as a complete Pump Assembly Kit (part number 71600-99601), unless a minimum order quantity is provided in the parts list.

- Completely remove the main internal mechanism from the left and right mouldings 41, 43, as described on page 5.
- To gain access to the pump attachment screws **29** the trigger assembly, items **34**, **40**, must be removed. Using the circlip pliers remove one circlip **67** from pin **66**. Push the pin out allowing the trigger lever **34** and trigger button **40** to be removed.
- Hold the main internal mechanism and pump block 51 securely in position and using the 3 mm allen key remove the four
 attachment screws 29. Remove the complete pump assembly from the housing 24. Care must be taken when removing the pump
 assembly as the plunger 36 will be spring loaded.
- Remove the plunger 36 and spring 35 from the pump block 51 taking care not to damage the seals, plunger surface and the
 pump block bore.
- Remove 'O' ring 49 from housing 24 and discard.

Assemble in reverse order to dismantling noting the following points:

- Clean the plunger **36** and apply a small amount of Molykote 111 grease to the seals using the spatula.
- Clean the pump block **51** bore and then lubricate with Molykote 111 grease using the spatula.
- Place spring **35** over the sealed plunger, align the end of the plunger with the pump block **51** bore and push into place until the seals are no longer visible. When inserting the plunger take care not to damage the seals on the rim of the pump block bore.
- Apply a light film of Loctite[®] 243 threadlocker to all four screws 29.
- Attach the pump assembly onto the housing 24 as before using four screws 29 and the 3 mm allen key.
- Finally assemble the trigger assembly, items 34, 40, and pin 66 in reverse order to dismantling.

Motor, Gearbox and Electrical Assembly

The motor, gearbox and electrical assembly includes items **3**, **4**, **5**, **28**, **38** and **52**. These parts are only available as a complete assembly (part number 71600-99602), unless a minimum order quantity is provided in the parts list.

- Completely remove the main internal mechanism from the left and right mouldings 41, 43, as described on page 5.
- · Remove the 'pump assembly' as described above.
- Using the small screwdriver remove the two screws 28 that retain the micro-switch to the switch bracket 27.
- Using the 3 mm allen key remove all three screws 38 and washers 52 attaching the gearbox to the housing 24.
- Remove the complete motor, gearbox and electrical assembly 3, 4 and 5 from the housing 24.

Assemble in reverse order of dismantling noting the following points:

- Ensure that the motor and gearbox assembly, when connected to the housing **24**, is orientated so that the groove in the gearbox mounting plate is at the top.
- Apply Loctite[®] 243 threadlocker to all three screws 38.
- DO NOT USE UNDUE FORCE when inserting the three screws 38 into the housing 24.

Head Assembly

The head assembly consists of three assembly kits, Cylinder Assembly Kit (part number 71600-99603), Piston Assembly Kit (part number 71600-99604) and Head Seal Kit (part number 71600-99605) containing items **6** to **18**, **21**, **22**, **23**, **30** and **32**. These parts are only available as complete kits unless a minimum order quantity is provided in the parts list.

- Completely remove the main internal mechanism from the left and right mouldings 41, 43, as described on page 5.
- Remove the complete motor, gearbox and electrical assembly 3, 4 and 5 as described on page 6.
- Unscrew locknut **31** and jaw spreader housing **20** from the piston **18**.
- Using the 3 mm and 2.5 mm allen keys remove screws 11, 23, 30, clamping the cylinder 32 to the housing 24.
- Remove the head assembly from the housing. Remove 'O' ring 56 from the housing and discard.
- Grip the head assembly in a vice using soft jaws to avoid damage.
- Using the end cap assembly tool unscrew and remove the cylinder cap assembly, items **6**, **7**, **8**, **9** from the rear of the cylinder **32**. Care must be taken as the cylinder cap **7** will be spring loaded.
- Remove and discard the spring 10 from inside the cylinder 32.
- Push the piston 18 to the rear and out of the cylinder 32 taking care not to damage the cylinder bore.
- Using the medium screwdriver enter the rear of the cylinder 32, lever the rod seal 15 from the groove and cut through with a scalpel taking care not to damage the cylinder bore or the seal groove. Using the spatula push the rod seal, followed by bearing ring 16 and '0' ring 17 to the rear and out of the cylinder. If at any time the cylinder bore or seal groove become damaged the cylinder must be replaced.
- Using a scalpel cut through and remove the piston seal **14** from the piston **18**. Then remove bearing ring **13** and '0' ring **12**. Take care not to damage the piston when cutting the seal.

Assemble in reverse order to dismantling noting the following points:

- Clean all components before assembling.
- To aid assembly of seals apply a light coating of Molykote 111 grease to both the seals and the assembly tools.
- Lubricate the cylinder 32 bore and seal grooves with Molykote 111 grease. Insert the bearing ring 16 into place within cylinder. With the aid of the spatula insert the 'O' ring 17. Place the rod seal 15 onto the insertion rod ensuring correct orientation. Push the guide tube into the cylinder bore and push the insertion rod with the seal into place through the guide tube ensuring seal is correctly seated. Pull the insertion rod out then the guide tube.
- Lubricate the piston **18** shaft and seal grooves with Molykote 111 grease and fit '0' ring **12** and bearing ring **13**. Place the piston seal sleeve over the piston shaft, then slide the piston seal **14** over the sleeve and into position using the piston seal tool ensuring correct orientation.
- Insert the cylinder collar into the back of the cylinder **32**. Screw the piston bullet onto the piston **18** and push the piston with the seals through the cylinder collar as far as it will go. Unscrew the bullet off the piston and remove the cylinder collar.
- Apply a light coating of Moly-lithium grease to the surface and ends of the spring 10 before inserting onto the piston 18 within the cylinder.
- Screw the cylinder cap assembly, items 6, 7, 8, 9, into the cylinder 32 using the 'T'-bar and end cap assembly tool.
- Insert 'O' ring **56** into the housing and lubricate with Molykote 111 grease.
- Fit the head assembly to the housing **24** using the three screws **11**, **23**, **30**, coated with Loctite® 243 threadlocker.
- When inserting jaw spreader housing 20 onto piston 18, screw down fully until it bottoms out on the end of the piston shaft.
 Secure jaw spreader housing 20 using locknut 31.

Trigger Mechanism

The trigger mechanism includes items **34**, **40**, **58** to **69**. These parts are only available as a complete Trigger Mechanism Kit (part number 71600-99606), unless a minimum order quantity is provided in the parts list.

- Completely remove the main internal mechanism from the left and right mouldings 41, 43, as described on page 5.
- Using the circlip pliers remove one circlip **67** from pin **66**. Push the pin out allowing the trigger lever **34** and trigger button **40** to be removed
- Using the circlip pliers carefully remove circlip **68** from the valve needle **61**, followed by shim **69**, trigger plate **65** and spring **60**. Discard the spring **60**.
- Using the threaded sleeve tool unscrew and remove the threaded sleeve 64 from the housing 24. Remove '0' ring 62 from the
 threaded sleeve and discard.
- Remove the valve needle **61** from the housing **24**, then remove and discard the spring **60** from the valve needle **61**. Using a scalpel cut '0' ring **63** from the valve needle taking care not to damage the seal groove.
- Using the valve seat tool unscrew the valve seat **59** and remove from the housing **24**. Remove bonded seal **58** from valve seat and discard.

Assemble in reverse order to dismantling noting the following points:

- Clean all components before assembling.
- Lubricate valve needle **61** shaft and seal groove with Molykote 111 grease and place the valve needle tool over the end of the valve needle **61**. Slide 'O' ring **63** over the valve needle sleeve and into the seal groove on valve needle. Remove the valve needle sleeve from the valve needle.
- Lubricate threaded sleeve **64** with Molykote 111 grease and place the threaded sleeve bullet over the end of the threaded sleeve. Slide '0' ring **62** over the threaded sleeve bullet and into the seal groove on threaded sleeve. Remove bullet from threaded sleeve.
- DO NOT USE UNDUE FORCE when inserting the valve seat **59** into the housing **24**.
- When fitting threaded sleeve **64** into housing **24**, ensure the component is screwed fully down until stopping against the valve seat **59**.
- When fitting trigger plate 65, ensure correct orientation is achieved.
- Using the trigger tool and pin 66 in place of the trigger lever 34, fully compress the trigger plate 65 into the threaded sleeve 64 against the spring 60. The end of the valve needle 61 will become exposed. Place the shim 69 over the valve needle and then insert the circlip 68 into the groove using the circlip pliers. Release and remove the trigger tool.

Housing Assembly

The housing assembly consists of items **24** to **27**, and **38**, all of which are available as individual parts, subject to a minimum order quantity. The assembly also contains items **39**, **55**, **56**, **57**, **70**, **75** and **76**. These parts are only available as a complete Housing Hydraulic Kit (part number 71600-99607).

- Completely remove the main internal mechanism from the left and right mouldings **41**, **43**, as described on page 5.
- Do not remove screws 25, 38, from the housing 24.
- Using medium screwdriver unscrew seal screw 75 from housing 24. Remove '0' ring 76 from seal screw.
- Using medium screwdriver unscrew inlet check valve 70 from housing 24.
- In order to remove outlet check valve **55** the head assembly must be removed as described on page 7.
- Using medium screwdriver unscrew outlet check valve 55 from housing 24. Remove '0' ring 57 from outlet check valve and discard.
- Assemble in reverse order to dismantling.



Reservoir Assembly

The reservoir assembly includes items **21**, **22**, **25**, **78**, **82** and **71** to **74**. These parts are only available as a complete Reservoir Assembly Kit (part number 71600-99608), unless a minimum order quantity is provided in the parts list.

- Completely remove the main internal mechanism from the left and right mouldings 41, 43, as described on page 5.
- Using the 3 mm allen key remove screw 21 and bonded seal 22 from reservoir 73.
- Using the spatular remove 'O' ring **72** from reservoir **73** and discard.
- Remove reservoir **73** from reservoir adapter **74**.
- Using the 2.5 mm allen key, remove screw 25 attaching reservoir adapter 74 to housing 24.
- Remove reservoir adapter 74 from housing 24.
- Remove '0' ring **71** from reservoir adapter **74** and discard.
- Do not remove the filter 78, or the 'O' ring 82, from the reservoir adapter 74 unless damaged. If removed discard both items.

Assemble in reverse order to dismantling noting the following points:

- Lubricate both 'O' ring 71 and seal groove on reservoir adapter. Place 'O' ring 71 in reservoir adapter 74.
- Using 2.5 mm allen key and screw 25 fit reservoir adapter 74 to housing noting correct orientation with the holes.
- Slide open end of reservoir **73** over reservoir adapter **74** and into position within the groove.
- Place the reservoir bullet over the closed end of reservoir **73**. Slide '0' ring **72** completely over the bullet until it falls into place around the end of the reservoir **73**, holding it in securely around the reservoir adapter **74**.
- Ensure that the reservoir **73** is correctly positioned on the reservoir adapter **74**, so that the flat face on the metal part of the reservoir is at the top.

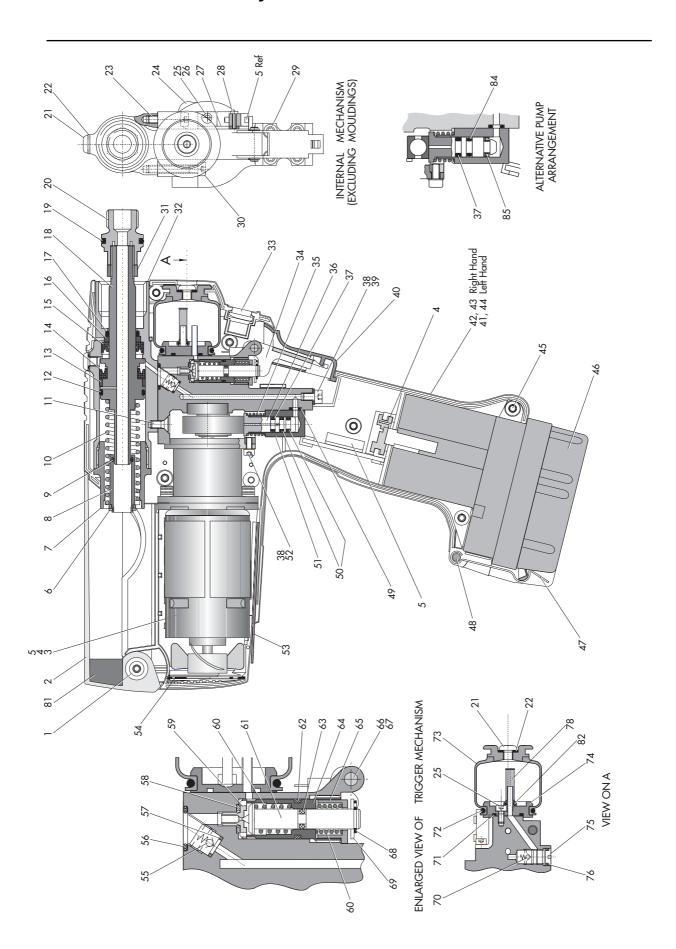
IMPORTANT: Check the tool against daily and weekly servicing.

Priming is ALWAYS necessary after the tool has been dismantled and prior to operating.

Troubleshooting

Symptom	Possible Cause	Remedy F	Page Ref
Fastener fails to brea	k Trigger mechanism springs worn	Replace trigger mechanism	8
Jaws will not release broken stem of faster	Damaged spring in head assembly ner	Fit new spring	7
Tool fails to operate - motor operational:	Pump plunger jammed	Replace pump spring	6
if head piston static	Inlet check valve faulty	Replace inlet check valve	8
if head piston pulsing	Outlet check valve faulty	Replace outlet check valve	8
Tool fails to operate -	Motor or gearbox failure	Test and replace any defective equipm	ent 6
motor not operationa	Electrical control circuit failure	Test and replace any defective equipm	ent 6

General Assembly of Base Tool 71600-02000



Parts List

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71560-2010 Processor Chief Control 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 3 3 1 1 2 3 3 1 1 2 3 3 1 2 3 3 1 4 3 3 4 4 4 1000000000000000000000000000000000000	4	71600-03110	Contact holder	1	1		48	07007-01957	Dowel pin	-	7	20
70004000016 Cynthology Cynth 7 50 50 7000400001 2 7160000016 Stewarter 3 2 7160000001 3 7160000001 3 7160000000 3 7160000000 3 7160000000 3 71600000000 3 7160000000 3 7160000000 3 71600000000 3 71600000000000 3 716000000000 3 716000000000000000000000000000000000000	2	71600-03110	Electrical control circuit	1	1		49	07003-00353	O-ring	-	7	20
71560-02015 Forth Edycologie Forth Edycologie Forth Edycologie 71560-02015 Forth Reported 1 7 5 1 71600-02015 Reservation shows 1 7 7 5 1 71600-02012 Rose washer 1 7 7 5 7 71600-02012 Rose washer 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 8 9 7 7 7 9 9 7 7 7 9 9 7 7 7 9 9 7 7 7 9 9 7 7 7 9 9 7 7 9 1 8 9 9 <t< td=""><td>9</td><td>07004-00102</td><td>Circlip</td><th>1</th><td>,</td><td>20</td><td>20</td><td>07003-00351</td><td>0-ring</td><td>5</td><td>7</td><td></td></t<>	9	07004-00102	Circlip	1	,	20	20	07003-00351	0-ring	5	7	
OFFICIATION CONTRICT PAIR CONTRICTORY STATE AND ASSERTED	7	71600-02016	Cylinder cap	1	7		51	71600-03202	Pump block		7	
7000000000000000000000000000000000000	∞	71600-02015	Piston sleeve	1	7		52	07002-00156	Steel washer	m	7	20
7/10/20/20/20/20/20/20/20/20/20/20/20/20/20	6	07003-00350	0-ring	1	∞		53	71600-02024	Nose tip spanner	1	7	10
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OYOGO 2002-300-300-300-300-300-300-300-300-300	13	07003-00361	Piston bearing ring	1	∞		22	07003-00359	O-ring for item 55	1	2	
OVOIGNOSCORD23 OFFICIATION CONTRICTORY AND READ CONTRICTORY OF A CON	14	07003-00243	Piston seal	1	8		28	07003-00355	Bonded seal	1	4	
07/00300302 Owner bearing ring 1 8 60 71600020210 Adveneded Procession spring 2 4 71600000311 Pistum Oring (sylinder) 1 7 62 07003-00352 Oring 1 4 71600000311 Pistum Disconsideration 1 7 50 63 07003-00352 Oring 1 4 712100-2101 Jaw spreader housing 1 7 50 66 71600-02012 Aring Revenue 1 4 07001-00545 Button head screw 2 7 50 66 71600-02012 Fire head screw 1 4 07001-00543 Socket cap head screw 1 7 50 66 71600-02012 Tringer plate 3.66 1 4 07001-00543 Socket cap head screw 1 7 50 66 71600-02012 Tringer plate 3.66 1 4 07001-00548 Socket cap head screw 1 7 7000-0019 0.7000-0019 <td>15</td> <td>07003-00273</td> <td>Rod seal</td> <th>1</th> <td>8</td> <td></td> <td>29</td> <td>71600-02019</td> <td>Valve seat</td> <td>-</td> <td>4</td> <td></td>	15	07003-00273	Rod seal	1	8		29	71600-02019	Valve seat	-	4	
QY000000035 Oring (sylinder) 1 8 61 7160002011 Valve needle 1 4 71,60000011 Piston 1 7 50 63 0700340354 Oring 1 4 71,60002011 Piston 1 7 50 63 0700340325 Oring 1 4 71,00002013 Bornded seal 1 7 50 66 7160002021 Fine and screw 1 4 07001-00645 Bordet cap head screw 1 7 50 66 7160040202 Fine and screw 1 4 07001-00648 Bordet cap head screw 1 7 50 66 770040010 710040010 1 4 07001-00648 Socket cap head screw 2 7 50 69 070040010 710040010 710040010 710040010 710040010 710040010 710040010 710040010 710040010 710040010 710040010 710040010 7100400010 710040010 710040010	16	07003-00362	Cylinder bearing ring	1	8		9	71600-02029	Compression spring	2	4	
71000.02011 Pixton 1 7 62 77003.00354 Oring 1 4 71210.02101 Jave preader housing 1 7 50 62 77003.00355 Oring 1 4 71210.02101 Jave preader housing 1 7 50 65 7100.02020 Prince plate 3&6 1 4 77001.00654 Button head screw 2 7 50 67 7100.02020 Prince plate 3&6 1 4 70001.00654 Bordet cap head screw 1 7 50 67 77004.00104 Cricip 2 7 71600.02019 Howath For Scoket cap head screw 1 7 50 67 77004.00104 Cricip 2 7 71600.02018 Stocket cap head screw 1 7 50 70 77004.00105 Reservoir 1 4 71600.02018 Stocket cap head screw 1 7 50 70 77007.0105 Reservoir	17	07003-00363	O-ring (cylinder)	1	8		61	71600-02017	Valve needle	-	4	
71210-0210 Oring A 50 65 7100-02003 Oring 1 V 50 65 7160-02003 Immaded sleeve 3.86 1 4 77210-0210 Bunded sead Bunded sead 2 V 50 66 7160-02003 Imgee plate 3.86 1 4 70001-000654 Bunded stead 2 V 50 66 7160-02003 Imgee plate 3.86 1 4 70001-00064 Bonded stead 1 V 50 67 77004-00104 Circlip 1 V 7100-020015 Stead stead 1 V 50 69 77004-0019 Circlip 1 V 7100-02015 Stead stead 1 V 50 70 77004-0019 Reservoir adapter 1 V 7100-02016 Stead stead 1 V 50 7 77004-019 Reservoir adapter 1 V 7100-02010 Stocket cap head screw 1 <td< td=""><td>18</td><td>71600-02011</td><td>Piston</td><th>1</th><td>7</td><td></td><td>62</td><td>07003-00354</td><td>0-ring</td><td>-</td><td>4</td><td></td></td<>	18	71600-02011	Piston	1	7		62	07003-00354	0-ring	-	4	
71210-0210 Jaw spreader housing 1 4 7160-02001 Interacted size week 38.6 1 4 70001-00654 Button head screw 2 7 50 65 71600-02002 Pringer plate 38.6 1 4 70001-00645 Socket cap head screw 1 7 50 66 70004-0014 Circip 38.6 1 4 71600-20015 Socket cap head screw 1 7 50 67 70004-0014 Circip 2 7 71600-20015 Steel washer 1 7 50 67 70004-0018 Steel steel washer 1 4 7 71600-20015 Steel washer 1 7 50 67 70004-0018 1 4 7 71600-20015 Steel washer 1 7 7 70004-0019 Reservoir dasher 1 7 71600-2001 Steel washer 1 7 7 70000-0019 Reservoir dasher 1 7 <	19	07003-00277	0-ring	1	>	20	63	07003-00352	0-ring	-	4	
07001-00654 Button head strew 2 7 50 65 71600-02020 Trigger plate 3.86 1 4 07001-00654 Socket cap head screw 1 4 50 66 71600-02020 Improvement of the plate of the p	20	71210-02101	Jaw spreader housing	1	7	1	64	71600-02018	Threaded sleeve	-	4	
07003-00546 Socket cap head screw 2 4 50 66 71600-002021 Pin 346 1 4 07001-00646 Socket cap head screw 1 4 50 67 07004-00104 Circip 2 4 07001-00647 Socket cap head screw 2 4 50 69 07002-00157 Steel shim washer 1 4 07001-00648 Shorthe brasklet 1 4 50 69 07002-00157 Steel shim washer 1 4 07001-00648 Shorthe brasklet 1 4 7 50 07003-00349 Oring 1 4 07001-00648 Shortet cap head screw 2 4 50 77 07003-0034 Steel screw 1 3 1600-02010 Chinder 1 4 7 50 77 07003-0034 Seal screw 1 7 1600-02020 Chinder 1 4 7 7 07003-0036 Seal screw 1 <td>21</td> <td>07001-00654</td> <td>Button head screw</td> <th>2</th> <td>,</td> <td>20</td> <td>65</td> <td>71600-02020</td> <td></td> <td>-</td> <td>4</td> <td></td>	21	07001-00654	Button head screw	2	,	20	65	71600-02020		-	4	
07001-00646 Socket cap head screw 1 V 50 67 07004-00104 Circip 2 V 7160-02009 Housing 4 1 68 07004-00103 Circip 1 7 07001-00647 Socket cap head screw 1 7 50 70 07007-01958 Inite check valve 1 5 17600-20014 Switch bracket 1 7 50 70 07003-0034 Oring 1 3 17600-20014 Switch bracket 1 7 50 70 07003-0034 Oring 1 7 17600-20015 Switch cap head screw 1 7 7 07003-0034 Reservoir 1 3 17600-02010 Orinder 1 7 50 74 71600-0304 Reservoir 1 3 17600-02010 Orinder 1 7 7 07007-01965 Battery chager-220/240V-50Hz (UK) 1 7 17600-02020 Orinder 1<	22	07003-00194	Bonded seal	2	,	20	99	71600-02021		-	4	
71600-2009 Housing 1 V 1 68 07004-00103 Circlio 07001-00643 Scodet cap head screw 2 V 50 69 07002-0015 Steel shim washer 1 4 71600-2014 Switch bracket 1 V 10 70 7000-10648 Socket cap head screw 1 3 71600-2014 Switch bracket 1 V 50 73 71600-0334 Reservoir cap head screw 1 3 7001-00645 Socket cap head screw 1 V 50 74 71600-03304 Reservoir dapter 1 3 7001-00645 Socket cap head screw 1 V 50 74 71600-03304 Reservoir dapter 1 X 71600-02023 Locketut Nose tip holder 1 V 7 71600-0303 Seal screw 1 X 71600-02023 Compression spring 1 V 7 7000-01065 Battey chager - 220/240V-50Hz (My) 1 X	23	07001-00646	Socket cap head screw	-	7	20	29	07004-00104	Circlip	7	7	20
77001-00647 Socket cap head screw 2 7 50 69 07002-00155 Steel shim washer 1 4 07002-00155 Steel washer 1 7 50 70 07007-01958 Inlet check valve 1 5 07001-00648 Sotket cap head screw 2 7 50 72 07003-0017 0-ring 1 3 07001-00645 Socket cap head screw 4 7 50 72 07003-001 0-ring 1 3 07001-00651 Socket cap head screw 1 7 1000-03304 Reservoir 1 3 07001-00652 Locket cap head screw 1 7 1000-03030 Reservoir adapter 1 3 07001-00645 Socket cap head screw 1 6 7 1000-03030 Reservoir adapter 1 3 07000-02020 Cylinder 1 4 7 1000-03030 Rattery chager - 200/240/-50Hz (MK) 1 7 07000-02020 Cylinger lever	24	71600-02009	Housing	-	,	1	89	07004-00103	Circlip	-	7	20
77002-00155 Siteel washer 1 V 50 70 07002-00158 Inite check value 1 5 71600-002043 Switch bracket 2 V 50 72 70003-0034 0-ring 1 3 70010-00664 Slocket cap head screw 4 V 50 74 71600-03304 Reservoir 1 3 70010-00655 Socket cap head screw 1 V 50 74 71600-03304 Reservoir 1 3 71600-02026 Lockuut 1 V 50 74 71600-03304 Reservoir 1 7 71600-02022 Lockuut 1 V 50 74 71600-0304 7 71600-0304 1 V 71600-02023 Nose th holder 1 V 7 7000-01965 Battery charger - 220/240V-50Hz (UK) 1 V 71600-03203 Trigger lever 1 2 7 7000-701966 Battery charger - 220/240V-50Hz (UK) 1 V	25	07001-00647	Socket cap head screw	2	,	20	69	07002-00157	Steel shim washer	-	4	
71600-02014 Switch bracket 1 V 10 71 07003-00349 Oring 1 3 07001-006548 Sotted cineese head screw 4 50 72 77003-0017 Reservoir 1 3 07001-00655 Socket cap head screw 4 50 74 71600-03310 Reservoir 1 3 07001-00645 Socket cap head screw 1 6 74 71600-03310 Reservoir 1 3 71600-02026 Locknut 1 6 76 71600-0203 Seal screw 1 7 71600-02030 Nose tip holder 1 6 77 71600-0203 Seal screw 1 7 71600-03203 Trigger lever 1 7 70007-01965 Battery charger - 220/240V-50Hz (UK) 1 7 71600-03203 Compression spring 1 2 7 70007-01966 Battery charger - 220/240V-50Hz (UK) 1 7 71600-03201 Punger 1 2 7 </td <td>56</td> <td>07002-00155</td> <td>Steel washer</td> <th>-</th> <td>,</td> <td>20</td> <td>2</td> <td>07007-01958</td> <td>Inlet check valve</td> <td>-</td> <td>2</td> <td></td>	56	07002-00155	Steel washer	-	,	20	2	07007-01958	Inlet check valve	-	2	
07001-00648 Slotted cheese head screw 2 4 50 72 07003-0010 Oring Oring 1 3 07001-00651 Socket cap head screw 4 4 50 73 71600-03310 Reservoir adapter 1 3 07001-00655 Socket cap head screw 1 4 50 73 71600-03031 Reservoir adapter 1 3 71600-02010 Cylinder 1 6 71600-02031 Seal screw 1 7 71600-02010 Cylinder 1 6 77 71600-02018 Battery charger - 220/240V-50Hz (UK) 1 7 71600-02013 Trigger lever 1 4 77 70707-01966 Battery charger - 220/240V-50Hz (UK) 1 7 71600-02013 Trigger lever 1 2 7 70707-01966 Battery charger - 220/240V-50Hz (UK) 1 7 71600-02013 Punger 5 7 7 70707-01966 Battery charger - 220/240V-50Hz (Mx (Mx tallal Harger) 1 7 </td <td>27</td> <td>71600-02014</td> <td>Switch bracket</td> <th>1</th> <td>7</td> <td>10</td> <td>71</td> <td>07003-00349</td> <td>O-ring</td> <td>-</td> <td>ж</td> <td></td>	27	71600-02014	Switch bracket	1	7	10	71	07003-00349	O-ring	-	ж	
07001-00651 Socket cap head screw 4 6 73 71600-03310 Reservoir adapter 1 3 07001-00645 Socket cap head screw 1 6 74 71600-02013 Reservoir adapter 1 3 71600-02020 Lokenut 1 6 76 7003-0038 Oring 1 5 71600-02010 Cylinder 1 6 77 7007-01965 Battery charger - 220/240V-50Hz (UK) 1 5 71600-02020 Compression spring 1 2 77 07007-01966 Battery charger - 220/240V-50Hz (UK) 1 7 71600-03203 Compression spring 1 2 7 07007-01966 Battery charger - 220/240V-50Hz (UK) 1 7 71600-03203 Compression spring 1 2 7 07007-01966 Battery charger - 100V-50/Hz (UK) 1 7 71600-03203 Compression spring 1 2 7 07007-01966 Battery charger - 100V-50/Hz (UK) 1 7 71600-03203 <td>28</td> <td>07001-00648</td> <td>Slotted cheese head screw</td> <th>2</th> <td>,</td> <td>20</td> <td>72</td> <td>07003-00170</td> <td>O-ring</td> <td>1</td> <td>т</td> <td></td>	28	07001-00648	Slotted cheese head screw	2	,	20	72	07003-00170	O-ring	1	т	
07001-00645 Socket cap head screw 1 V 50 74 71600-03014 Reservoir adapter 1 V 71600-02026 Locknut 1 V 10 75 71600-02013 Seal screw 1 V 71600-02010 Cylinder 1 6 76 07003-01965 Battery charger - 220/240V-50Hz (Livpe) 1 5 71600-0203 Trigger lever 1 4 77 07007-01965 Battery charger - 220/240V-50Hz (Livpe) 1 V 71600-03203 Trigger lever 1 2 7 07007-01966 Battery charger - 220/240V-50Hz (Livpe) 1 V 71600-03203 Trigger lever 1 2 7 07007-01966 Battery charger - 100V-50/6Hz (Livpe) 1 V 71600-03203 Punger 1 2 7 07007-01966 Battery charger - 100V-50/6Hz (Livpe) 1 V 71600-03203 Doring 1 2 7 07007-01966 Battery charger - 100V-50/6Hz (Livpe) 1 V <	53	07001-00651	Socket cap head screw	4	7	20	73	71600-03310	Reservoir	-	m	
71600-02026 Locknut 1 V 10 75 71600-02013 Seal screw 1 V 71600-02010 Cylinder 1 6 76 07003-00358 Oring 1 5 71600-02013 Nose tip holder 1 4 77 07007-01965 Battery charger - 220/240V-50Hz (UK) 1 V 71600-03203 Compression spring 1 2 7 07007-01966 Battery charger - 220/240V-50Hz (Burbel) 1 V 71600-03203 Compression spring 1 2 7 07007-01966 Battery charger - 220/240V-50Hz (Burbel) 1 V 71600-03203 Compression spring 1 2 7 07007-01966 Battery charger - 220/240V-50Hz (Burbel) 1 V 71600-03203 Oring Socket cap head screw 4 V 50 78 07007-01960 Statery charger - 100V-50/60Hz (Bapal) 1 V 7000-01-0649 Socket cap head screw 1 4 V 7 7 7007-01960 Stroage cas	8	07001-00645	Socket cap head screw	1	,	20	74	71600-03304	Reservoir adapter	1	т	
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71600-03203 Compression spring 1 2 07007-01967 Battery charger - 220/240V-50Hz (Australia) 1 V 71600-03201 Plunger 1 2 07007-01968 Battery charger - 110V-60Hz (USA, Canada) 1 V 07003-00366 0-ring 1 2 7 07007-01969 Battery charger - 100V-50/60Hz (Japan) 1 V 07001-00649 Socket cap head screw 4 V 50 78 07007-01960 Storage case 11 3 07001-00649 Socket cap head screw 4 V 50 78 07007-01960 Storage case 11 Y 07003-00300 Trigger button 1 4 V 79 07007-01960 Storage case 1 V 11 4 X 70 07007-01960 Storage case 1 Y 12 8 71600-02031 Collector lid buffer 1 Y Y 12 Y 10 82 Y 10 1	34	71600-03403	Trigger lever	1	4			07007-01966	Battery charger - 220/240V~50Hz (Europe)	-	>	
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07001-00649 Socket cap head screw 4 V 50 78 07007-01980 Filter Filter 1 3 07003-00360 Bonded seal 1 5 79 07007-01960 Storage case 1 V 71600-03401 Trigger button 1 4 80 07900-00759 Tool Instruction Manual - UK version 1 V 71600-02002 Left moulding 1 9 81 71600-02031 Collector lid buffer 1 9 71600-0201 Right moulding 1 9 83 71600-02035 Blank serial number label 1 Y 71600-0202 Case label LH 1 Y 10 84 7003-00373 Energised PTFE seal 1 Y 71600-02027 Case label LH 1 Y 10 84 7003-00373 Energised PTFE seal 1 2	37	07003-00366	0-ring	1	2			07007-01969	Battery charger - 100V~50/60Hz (Japan)	-	,	-
07003-00360 Bonded seal 1 5 79 07007-01960 Storage case 1 \$\$\$ 71600-03401 Trigger button 1 4 80 07900-00759 Tool Instruction Manual - UK version 1 \$\$\$ 71600-02002 Left moulding 1 9 81 71600-02031 Collector lid buffer 1 9 71600-02028 Case label RH 2 \$\$\$ 10 82 07003-00371 0'Ring 71600-02001 Right moulding 1 9 83 71600-02035 Blank serial number label 1 \$\$\$ 71600-02027 Case label LH 1 \$\$\$ 100 84 07003-00373 Energised PTFE seal 1 \$\$\$ 71600-02027 Case label LH 1 \$\$\$ 100 84 07003-00372 Energised PTFE seal 1 2	88	07001-00649	Socket cap head screw	4	,	20	78	07007-01980	Filter	-	ო	
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71600-02027 Case label LH 1 1 1 1 1 1 1 1 1	43	71600-02001	Right moulding	1	6		83	71600-02035	Blank serial number label	-	7	20
85 07003-00372	44	71600-02027	Case label LH	-	7	10	84	07003-00373	Energised PTFE seal	-	7	
							82	07003-00372	Energised lip leal	_	2	

Note

- Motor, Gearbox and Electrical Assembly (part number 71600-99602). These items are only available as a complete assembly kit unless a minimum order quantity is stated. Pump Assembly Kit (part number 71600-99601). These items are only available as a complete assembly unless a minimum order quantity is stated.
 - Reservoir Assembly Kit (part number 71600-99608). These items are only available as a complete assembly kit unless a minimum order quantity is stated.
- Trigger Mechanism Kit (part number 71600-99606). These items are only available as a complete assembly kit unless a minimum order quantity is stated. Housing Hydraulic Kit (part number 71600-99607). These items are only available as a complete kit.
 - Cylinder Assembly Kit (part number 71600-99603). These items are only available as a complete assembly kit unless a minimum order quantity is stated.
 - Piston Assembly Kit (part number 71600-99604). These items are only available as a complete assembly kit unless a minimum order quantity is stated.
- Body Moulding Assembly Kit (part number 71600-99600). These items are only available as a complete assembly kit unless a minimum order quantity is stated. Head Seal Kit (part number 71600-99605). These items are only available as a complete assembly kit unless unless a minimum order quantity is stated.
 - These items are available as individual spares subject to the minimum order quantity refer to Avdel sales.

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 TX2000

Serial No.

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

TX2000 Tool	Battery Charger
EN ISO 12100 - parts 1 & 2	VDE0700
EN 50260 - part 1	EN 60335-1
BS EN 982	EN 60335-2-29
BS EN ISO 8662 - part 6	EN 60742/0695
BS EN ISO 3744	EN 50081-1
ISO EN 792 part 13 - 2000	EN 55014
BS EN ISO 11202	EN 60555-2/3
BS EN 55014 part 1 & 2	EN 50082-1
BS EN 50081 part 1	EN 55104

following the provisions of the Machine Directive 89/392/EC (as amended by Directive 91/368/EC, 93/44/EC and 93/68/EC) and superseded by 98/37/EC

A. Seewraj - Product Engineering Manager - Automation Tools

Date of issue



This box contains a power tool which is in conformity with Machines Directive 89/392/EC. The 'Declaration of Conformity' is contained within.



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Manual No.	Issue	Change Note No.
	AB	03/022
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