Instruction Manual

Original Instruction

07536

Hydro-Pneumatic 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

1. Do not use outside the design intent.

2. The Hand Tool and Intensifier have been tested as separate items and combined. They must only be used together and under no circumstances for any other purposes.

3. Do not use equipment with this tool/machine other than that recommended and supplied by Avdel UK Limited.

4. 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.

5. 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.

6. 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 Act 1974” applies. Any question regarding the correct operation of the tool/machine and operator safety should be directed to Avdel UK Limited.

7. The precautions to be observed when using this tool/machine must be explained by the customer to all operators.

8. Always disconnect the airline from the tool/machine inlet before attempting to adjust, fit or remove a nose assembly.

9. Do not operate a tool/machine that is directed towards any person(s) or the operator.

10. Always adopt a firm footing or a stable position before operating the tool/machine.

11. Ensure that vent holes do not become blocked or covered and that hoses are always in good condition.

12. The operating pressure shall not exceed 7 bar (100 lbf/in²).

13. The combination of fastener, mandrel, hole size and sheet thickness shall be in accordance with Avdel UK Limited. Specifications.

14. Do not operate the tool if it is not fitted with a complete nose assembly unless specifically instructed otherwise.

15. 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.

16. 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.

17. When carrying the tool from place to place keep hands away from the trigger/lever to avoid inadvertent startup.

18. Excessive contact with hydraulic oil should be avoided. To minimize the possibility of rashes, care should be taken to wash thoroughly.

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IMPORTANT

While a small amount of wear and marking will naturally occur through normal and correct use of mandrels, they must be regularly examined for excessive wear and marking, with particular attention to the head diameter, the tail jaw gripping area of the shank or heavy pitting of the shank and any mandrel distortion. Mandrels which fail during use could forcibly exit the tool. It is the customer’s responsibility to ensure that mandrels are replaced before any excessive levels or wear and always before the maximum recommended number of placings. Contact your Avdel representative who will let you know what that figure is by measuring the broach load of your application with a calibrated test tool. These tools can also be purchased under Part Number 07900-09080, supplied with all necessary information for testing in this manual.
# Specifications

## Specification for 07536 Tool

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air Pressure</strong></td>
<td>Minimum - Maximum</td>
</tr>
<tr>
<td><strong>Free Air Volume Required</strong></td>
<td>@ 5.1 bar /75 lbf/in²</td>
</tr>
<tr>
<td><strong>Stroke</strong></td>
<td>Minimum</td>
</tr>
<tr>
<td><strong>Pull Force</strong></td>
<td>@ 5.5 bar /80 lbf/in²</td>
</tr>
<tr>
<td><strong>Cycle time</strong></td>
<td>Approximately</td>
</tr>
<tr>
<td><strong>Noise Level</strong></td>
<td>Less than</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Pistol</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
<td>Less than</td>
</tr>
</tbody>
</table>

5-7 bar (70-100 lbf/in²)

2.6 litres (0.09 ft³)

25 mm (1 in)

3.89 kN (875 lbf)

1 second

70 dB(A)

1.2 kg (2.64 lb)

2.5 m/s² (8 ft/s²)

## Specification for 07531 Intensifier

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air Pressure</strong></td>
<td>Minimum - Maximum</td>
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<tr>
<td><strong>Intensification Ratio</strong></td>
<td>32:1</td>
</tr>
</tbody>
</table>

5-7 bar (70-100 lbf/in²)
Intent of Use

The pneumatic 07536 tool is a hand held light weight tool designed to place 1/16” Avlug® making it ideal for batch or flow-line assembly in a wide variety of applications throughout all industries.

The Hand Tool and Intensifier have been tested as separate items and combined. They must only be used together and for no other purposes. Refer to “Putting into Service” on page 7 and 8 for connection details.

Part numbers are shown to order a complete tool but no nose equipment.

The tool number for the 07536 model is 07536-02200.
See the general assemblies on pages 13-19.

Tool Dimensions - 07536 Model

Part Number 07536-02100
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 oiling/filtering systems on the main air supply. To ensure maximum tool life and minimum tool maintenance they should be fitted within 3 metres of the tool (see diagram below).

Air supply hoses should have a minimum working effective 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 supply hoses MUST have a minimum bore diameter of 6.4 millimetres or 1/4 inch.

Follow the steps below when connecting the tool to the intensifier and main air supply:

- Push the end of the large hydraulic hose from the tool into the quick release connector on the end of the intensifier.

- On the front face of the intensifier (Refer to page 13):
  - Push the blue pneumatic (4mm OD) line into the reducer fitting which is located in the left hand bulkhead connector.
  - Push the black pneumatic (4mm OD) line into the plastic collet of the right hand bulkhead connector.

- On the front face of the control box (Refer to page 13):
  - Push the silver pneumatic (3mm OD) line into the reducer labelled ‘Cursor’ on the front face of the control box - LH side.
  - Push the green pneumatic (4mm OD) line into the reducer labelled ‘Tail Jaws’ on the front face of the control box - middle.
  - Push the white pneumatic (4mm OD) line into the reducer labelled ‘Signal’ on the front face of the control box - RH side.

- Fit a pneumatic hose between the male connector at the rear of the intensifier and main air supply.
Air Cursors

Putting into Service

Air Cursor Selection
See separate data sheet 07900-00863 for nose assembly components.

Cursor

**IMPORTANT**
If fitted incorrectly, the cursor will not allow the loading of the tool and feeding of the fasteners.

While the cursor will be fitted the correct way round when the tool is supplied, we recommend that you check its orientation before fitting the nose equipment. The slightly concave end of the cursor should point towards the front of the tool as shown in the illustration.

To reverse the orientation of the cursor, follow these steps:

Extreme caution must be exercised when undertaking the following procedure. Care must be taken to avoid the barrel and protruding mandrel.

- Remove the Nose Assembly if there is one.
- Insert an empty mandrel fully into the tool.
- Close the Tail Jaws 32, by switching on the tail jaw switch (items 18 and 19).
- The cursor will pop out of the barrel after a short delay.
- Open the Tail Jaws 32, by switching off the tail jaw switch (items 18 and 19), this will release the mandrel.
- Remove the cursor from the mandrel and insert the cursor into the barrel.

Item numbers in **bold** refer to the general assembly and parts list for the 07536-02200 Tool on pages 16-17.
Putting into Service

Loading and Reloading the Tool

**IMPORTANT**
The procedure for loading the tool and for fitting the nose equipment to the tool is integral.

When ordering a complete tool or system you will normally be supplied with all the nose equipment required for the fastener to be placed.

If you have been supplied with a nose jaw, mandrels and mandrel follower springs proceed with loading the tool and fitting the nose equipment as shown below.

**Loading the Tool**

- Connect the air supply to the tool.
- Open Tail Jaws 32 which grip the mandrel, by switching off the tail jaw switch (items 18 and 19).
- Screw selected nose jaws onto Barrel 44 of the tool.
- Insert a mandrel into the tail end of the fasteners through the paper pod.
- Grip the tail end of the mandrel, tear off the paper pod from around the fasteners.
- Open the nose jaws either by rotating the outer ring on Cam operated jaws or by pushing outwards on the jaw ends, as illustrated below left.
- Insert the previously assembled mandrel, mandrel follower spring and fasteners into the nose jaws until the first fastener to be placed protrudes from the nose jaw.
- Close the nose jaws and adjust so that the first fastener protrudes by 1.5mm - 3mm (1/16" to 1/8"), as shown in the illustration below right.
- Close the Tail Jaws 32 to ensure the mandrel is gripped, by switching on the tail jaw switch (items 18 and 19).

**Re-loading the Tool**

- Open Tail Jaws 32 of tool, by switching off the tail jaws (items 18 and 19).
- Open the nose jaws and pull the empty mandrel and mandrel follower spring out of the tool.
- Reload the tool by following the above instructions, starting at stage *".

Item numbers in **bold** refer to the general assembly and parts list for the 07536-02200 Tool on pages 16-17.
Putting into Service

Loading and Re-loading the Tool

Setting the Tool - Adjustable Nose Assemblies Only

Insert the previously assembled mandrel (see Loading the Tool *) or the disposable mandrel against the stop within the Tail Jaw Piston Assembly 60.

While holding the mandrel, close the Tail Jaws 32, which grip the mandrel, by switching on the tail jaw switch (18 and 19).

Screw the lock nut onto the Barrel 44 of the tool.

Rotate the nose assembly onto the Barrel 44.

Adjust the nose assembly so that the first fastener protrudes by 1.5mm-3mm (1/16"-1/8"), as shown in the illustration on page 9.

Tighten the lock nut against the nose assembly to prevent the nose jaw assembly from moving.

Re-loading the Tool

Open the tail jaws of the tool, by switching off the tail jaw switch (18-19).

Open the jaws and pull the empty mandrel and follower spring out of the tool.

Insert the new mandrel against the stop within the tool, and close the Tail Jaws 32 which grip the mandrel, by switching on the tail jaw switch (18 and 19).

Close the Tail Jaws 32.

Operating Procedure

IMPORTANT

You must check that the cursor orientation and the nose equipment are correct before attempting to operate the tool.

• Push the fastener, protruding from the nose jaws, fully into the application holes ensuring that the tool is held square.
• Operate the trigger without releasing - the mandrel head is pulled through the fastener, forming the fastener into the application.
• Remove the tool.
• Release the trigger. The next fastener will be automatically presented through the nose jaws, ready for placing.

Item numbers in bold refer to the general assembly and parts list for the 07536-02200 on pages 16-17.
Servicing the Tool

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

**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.

**Pneumatic Control Box**

**IMPORTANT**
Under no circumstances must the pneumatic box be opened. The box is a closed item. The internal adjustments are preset and must not be altered or tampered with.
Only Authorised Avdel personnel may dismantle this control box.

**Daily**

- Daily, before use or when first putting the tool into service. Pour a few drops of clean lubricating oil into the air inlet of the intensifier 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 and oil leaks. If damaged, hoses and couplings should be replaced.
- If there is no filter on the pressure regulator, bleed the airline to clear it of accumulated dirt or water before connecting the air hose to the intensifier. If there is a filter, drain it.
- Check that the nose equipment is correct.
- Check mandrels regularly for signs of wear or damage monitoring the number of placings (read the safety instructions on page 4).

**Weekly**

- Conduct the full “Daily” procedures as described above.
- Remove, inspect, clean and grease the Tail Jaws (refer to “Tail Jaw Cylinder” in the ‘Maintenance Section’ page 14).
- Check oil level in the intensifier Unit reservoir is approximately 12mm (1/2”) below the transparent cover plate.

**Moly Lithium Grease EP 3753 Safety Data**

Grease can be ordered as a single item, the part number is shown in the Service Kit page 12.

**First Aid**

**SKIN:**
As the grease is completely water resistant it is best removed with an approved emulsifying skin cleaner.

**INGESTION:**
Ensure the individual drinks 30ml Milk of Magnesia, preferably in a cup of milk.

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

**Fire**

FLASH POINT: Above 220°C.
Not classified as flammable.
Suitable extinguishing media: CO₂, Halon or water spray if applied by an experienced operator.

**Environment**
Scrape up for burning or disposal on approved site.

**Handling**
Use barrier cream or oil resistant gloves.

**Storage**
Away from heat and oxidising agent.
## Servicing the Tool

### Service Kit

For all servicing we recommend the use of the Service Kit (part number 07900-05300).

### SERVICE KIT

<table>
<thead>
<tr>
<th>ITEM PART N°</th>
<th>DESCRIPTION</th>
<th>Nº OFF</th>
<th>ITEM PART N°</th>
<th>DESCRIPTION</th>
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<td>07900-00157</td>
<td>CIRCLIP PLIERS</td>
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<td>07900-00352</td>
<td>SEAL REMOVAL HOOK</td>
<td>1</td>
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<tr>
<td>07900-00006</td>
<td>SPATULA</td>
<td>1</td>
<td>07900-00710</td>
<td>BARREL PLUG REMOVAL SPANNER</td>
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<tr>
<td>07900-00446</td>
<td>EXTRACTOR</td>
<td>1</td>
<td>07900-00725</td>
<td>BULLET</td>
<td>1</td>
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<tr>
<td>07900-00603</td>
<td>BARREL VICE JAWS</td>
<td>1</td>
<td>07900-00243</td>
<td>SCREWDRIVER</td>
<td>1</td>
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<tr>
<td>07900-00520</td>
<td>3/8&quot; ROD</td>
<td>1</td>
<td>07900-00717</td>
<td>INTENSIFIER SPANNER</td>
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<tr>
<td>07900-00521</td>
<td>1/4&quot; ROD</td>
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<td>07900-00013</td>
<td>1/8&quot; ALLEN KEY</td>
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<tr>
<td>07900-00602</td>
<td>'O' RING ASSEMBLY BULLET</td>
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<td>07900-00617</td>
<td>LOCTITE® MULTI-GASKET 574 50ml PACK</td>
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<tr>
<td>07900-00595</td>
<td>18mm SPANNER</td>
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<td>07900-00469</td>
<td>2.5mm ALLEN KEY</td>
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<td>07900-00434</td>
<td>32mm SPANNER</td>
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<td>07900-00351</td>
<td>3mm ALLEN KEY</td>
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<td>4mm ALLEN KEY</td>
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<td>07900-00012</td>
<td>9/16&quot; x 5/8&quot; SPANNER</td>
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<td>5mm ALLEN KEY</td>
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<td>07900-00008</td>
<td>1/4&quot; x 1/2&quot; SPANNER</td>
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<td>07992-00020</td>
<td>80g TIN MOLY LITHIUM GREASE EP 3753</td>
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Note: Spanner sizes are measured 'across flats' unless otherwise specified.
Air Cursor Tool, Intensifier & Control Box Assembly
07536-02100

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART No</th>
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<td>1</td>
<td>07536-02200</td>
<td>AIR CURSOR HAND TOOL</td>
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<td>2</td>
<td>07531-02200</td>
<td>INTENSIFIER TOOL</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>07007-02024</td>
<td>AIR CURSOR CONTROL BOX</td>
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<tr>
<td>4</td>
<td>07005-10071</td>
<td>T CONNECTOR</td>
<td>1</td>
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<tr>
<td>5</td>
<td>07005-10072</td>
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<td>6</td>
<td>74405-12080</td>
<td>MODIFIED M8 NUTsert</td>
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<td>7</td>
<td>07001-00469</td>
<td>M8 X 15 SOCKET CAP HEAD SCREW</td>
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<td>8</td>
<td>07002-00105</td>
<td>M8 WASHER</td>
<td>4</td>
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<td>9</td>
<td>07005-01573</td>
<td>MALE CONNECTOR 8MM TUBE</td>
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<td>10</td>
<td>07005-01977</td>
<td>MALE/FEMALE REDUCER 6MM /4MM</td>
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</table>
Maintenance

Every 500,000 cycles the tool should be completely dismantled and new components should be used where worn, damaged or when recommended. All ‘O’ rings and seals should be renewed and lubricated with Moly Lithium grease EP 3753 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 airline 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.

Prior to dismantling the tool, you will need to remove the nose equipment.

For total tool servicing we advise that you proceed with the dismantling of sub-assemblies in the order shown below after having disconnected the hydraulic hose from the intensifier unit, air lines from the intensifier and control box, thus separating the pistol unit from the intensifier unit.

**Dismantling 07536-02200**

**TAIL JAW CYLINDER**

- Manually flip the retaining Clip 53 up and remove the End Cap 59.
- Using an Allen Key*, remove one Cap Head Screw 6 ensuring that any trapped air in the tail jaw cylinder is exhausted. Remove the second Cap Head Screw 6.
- Pull out Rear Plug 50. **Note:** To aid extraction there is a 5mm thread on the rear face of the plug.
- Extract air tail jaw components, comprising Tail Jaw Piston Assembly 60, Stop 52, ‘O’ Ring 12 and Jaws 32.
- Extract the remaining components, comprising of Spring 36 and Jaw Housing 42.
- Free length of spring 36 should be 38.1mm (1.5”). Replace if necessary.
- Remove piston assembly seal ‘O’ Ring 11.
- Disconnect Air Cursor Concertina Tube (Green) 49 from Elbow Connector 22.
- Disconnect Air Cursor Concertina Tube (Silver) 38 from Barb Elbow 30.
- Using an Allen Key*, remove all five handle moulding securing Screws 3, 4 and all four Nuts 8 from the tool handle.
- Grip Barrel 44 in a vice using soft jaws* to avoid damage.
- Using a box spanner*, unscrew Barrel Plug 46, preventing Barrel 44 turning by using an open ended spanner*.
- Pull the Tail Jaw Cylinder 47 from the tool.
- Remove ‘O’ Ring 14, Rubbing Strip 41 and Barrel Return Spring 37.
- Coat the face of Tail Jaws 32 with Moly Lithium grease, in contact with Jaw Housing 42, before assembling.
- Assemble in reverse order of dismantling.

**HYDRAULIC PISTON**

- Remove Tail Jaw Cylinder 47 as described earlier.
- Grip Body 45 in vice using soft jaws* to avoid damage, undo Stroke Limiter 40.
- Using an Allen Key*, loosen Screw 5 that is clamping the Switch Block 54 to the barrel 44.
- Hold the tool firmly and pull the Barrel 44 from the Body 45 (a small quantity of hydraulic oil may be ejected from inside the head assembly).
- Remove Piston 39 carefully so as not to damage head bore.
- Remove Seal 16.
- Seal 17 is difficult to remove without damaging, but can remain in place during cleaning (provided it is not affected by cleaning process). If however, Seal 17 requires renewing proceed as follows:
  - Using spatula*, prise out Seal 17 from Body 45, taking care not to damage body cavity and bores. The removed Seal 17 MUST be discarded.
  - To replace Seal 17, unscrew Bleed Plug Assembly 43 until inside face is level with internal bore of the Body 45. This will provide a smooth passage for insertion of a new Seal 17 through rear of Body 45.
  - Ensure the Seal 17 is well greased and the correct way round with the open end of the seal facing the rear tail jaws.
- Complete assembly in reverse order of dismantling.

* Refers to items included in the 0753 MkII Service Kit. For complete list see page 12. Item numbers in **bold** refer to the general assemblies and parts lists on pages 16-17.

Avdel®
TRIGGER ASSEMBLY

- To dismantle/service assembly, remove covers from the tool as described earlier.
- Disconnect all air hoses from assembly, taking care not to damage them. Remove assembly.
- Using a spanner*, unscrew the Retainer 34 and remove. Take care to keep the Spring 31.
- Prise off the ‘O’ Ring 10 taking care not to damage the Spindle 35 and Retainer 34 seatings.
- Clean and re-assemble using a new ‘O’ Ring 10.
- Check length of Spring 31 which must be 12.7mm (0.5”) free length – replace if necessary.
- Assembly in reverse order of dismantling.

TAIL JAW ON/OFF VALVE

- The unit is designed so that minimum of servicing is required during the life of the tool.
- If it is necessary to dismantle the valve, proceed as follows:
  - Remove Trigger Housing 56 as described in section “Hydraulic Piston”.
  - Using a screwdriver*, carefully remove the Chrome Star-lock Washer 18 from Air Tail Jaw Spool 55 and discard washer.
  - Extract Air Tail Jaw Spool 55 from Switch Block 54.
  - Taking care not to damage the Air Tail Jaw Spool 55, remove the ‘O’ Rings 12.
  - Clean spool and reft new ‘O’ Rings 12 using assembly bullet* and insert into Switch Block 54, noting its orientation.
  - Fit New Chrome Star-lock Washer 18 by clamping in a soft jaw vice to prevent damage. DO NOT USE UNDUE FORCE.
  - Complete assembly in reverse order of dismantling.

HANDLE & END CAP

- Clean and inspect mouldings for cracks or other damage.

CURSOR

- Clean and oil cursor assembly occasionally with a little light oil.

**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 0753 MkII Service Kit. For complete list see page 12. Item numbers in **bold** refer to the general assemblies and parts lists on pages 16-17.
## Parts List for Base Tool 07536-02200

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART N°</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>SPARES</th>
<th>ITEM</th>
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**Notes:**
- Items marked with ● are not shown in the list.
- The term "SPARES" refers to additional parts, not included in the main list but available for replacement.
Intensifier 07531-02200 - Maintenance

Dismantling Instructions

- When dismantling the intensifier assembly, first disconnect the air supply hose to intensifier inlet Connector 22.
- Using an Allen Key* undo four Screws 27 and remove Protection Plate 24.
- Disconnect the trigger hose 47 from the intensifier Valve 43 or 48 by depressing the outlet collet and withdrawing the hose.
- Remove Cover Plate 4 and Gasket 35 by removing Screws 37 and Washers 36 using Allen Key*.
- Ensure that gasket is not damaged to ensure a proper seal on assembly.
- Insert intensifier assembly and drain oil from reservoir into a suitable container.
- Remove Quick Release Connector 32 together with Connector 31 and Seals 33 with suitable spanner*.
- Remove intensifier Valve 43 or 48 by removing the fixing screws with a suitable spanner taking care to retain 'O' Ring 21 located in the Intensifier Body Casting.
- Remove Screw 19 using a suitable Allen Key* and remove Silencer Cover 16, Foam Silencer 15, Spacer 18 and Retaining Plate 20.
- Pull off the 6mm Plastic Tube 41 from Vacuum Connectors 42.
- From the base of the intensifier insert a 3mm Allen Key * through the two holes and unscrew the Vacuum Connectors 42. Note:
  - Care must be taken as the vacuum connectors are locked and sealed in place using Loctite® 574.
  - If difficult to remove, the vacuum connectors can be drilled out using a 3/16" or 4.7mm diameter drill.
  - To reassemble the Vacuum Connectors 42, the following procedure must be followed:
    1. Soak the vacuum connectors in a suitable primer, i.e. Perma Bond A905
    2. Place a drop of Loctite® 574 in the intensifier threaded hole.
    3. From the base of the intensifier insert the Allen Key * through the hole. Ensure that the Allen Key * is free from Loctite® 574 before inserting into the vacuum connector.
    4. Rotate the Allen Key while applying Loctite® 574 to the base of the vacuum connector.
    5. Screw the Vacuum connector into the intensifier, ensuring that there is sufficient Loctite® 574 at the base of the fitting such the thread is not visible.
- Using a screwdriver, carefully remove internal Retaining Ring 14. Clean and inspect groove for sign of damage.
- Using Extractor*, insert male threaded end into End Cover 12 and withdraw it along with intensifier Sleeve 28 and 'O' Rings 10 and 13.
- Insert Rod* through the connector orifice at the front of the intensifier body and tap out Piston Rod 9 and Piston Assembly.
- Using a suitable Allen Key*, unscrew two Screws 25 and remove End Cover 12 from intensifier Sleeve 28.
- Remove Seal Plug 7 with spanner*.
- Insert rod* through connector orifice at the front of the intensifier body and push out Seal Housing 5 and associated 'O' rings and lip seals.
- Remove Valve Housing Assembly 34 from the main body with a suitable spanner*. Clean by blowing through with a low-pressure air jet.
- Remove Piston Rod 9 from intensifier Air Piston 11 by gripping the first 20 mm (3/4") of the rod in a vice fitted with soft jaws, taking care not to damage or mark the working surface.
- Unscrew locking Nut 17 with a suitable spanner*.
- Assemble in the reverse order of dismantling, observing the following:
  - Clean all parts and renew all 'O' rings.
  - Lubricate all seals using Moly Lithium grease.
  - Valve Housing Assembly 34 must be refitted using a thread sealing adhesive.
  - Assemble the Piston Assembly using a new Nut 17.
- End Cover 12 must be fitted correctly inside Retaining Ring 14. The tool must not be operated if the end cover has been omitted.

** IMPORTANT **

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

* Refers to items included in the 0753 MkII Service Kit. For complete list see page 12.
Item numbers in **bold** refer to the illustration and parts list opposite.
**Intensifier 07531-02200**

**Note**

*Some units will not include these items (The required link is achieved via internal porting).*

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**VIEW ON ARROW 'A'**

**VIEW ILLUSTRATING COMPAIR VALVE**

**VIEW ON ARROW 'B'**

**VIEW ILLUSTRATING FESTO VALVE**

---

**07531-02200 PARTS LIST**

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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 be reduced and fasteners are not fully placed by one operation of the trigger.

Oil Details

The recommended oil for priming is Hyspin® VG32 and AWS 32 available in 0.5l (part number 07992-00002) or one gallon containers (part number 07992-00006). Please see safety data below.

Hyspin® VG32 and AWS 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.
EYES: Irrigate immediately with water for several minutes. Although NOT a primary irritant, minor irritation may occur following contact.

Fire
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**

DO NOT OPERATE THE TRIGGER WHILE THE BLEED SCREW IS REMOVED
All operations should be carried out on a clean bench, with clean hands in a clean area.
Ensure that the new 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.

- Remove Screw 2 and Seal 1 from Plastic Cover plate 4 on the intensifier reservoir.
- Pour the priming oil into the reservoir until it is approximately 1/2" (12mm) from the top.
- Replace Screw 2 and Seal 1.
- Connect the intensifier unit to the air supply. Remove screw from reservoir.
- With the 07536 pistol unit fitted to the intensifier unit and held below the level of the intensifier unit, unscrew Bleed Screw 64 from Bleed Plug Assembly 43 on the 07936 tool two turns and allow oil to flow out of the tool.
- When the oil runs freely and free of air bubbles, tighten the bleed screw.
- Top up the reservoir on the intensifier unit with priming oil.
- Cycle the tool until any air bubbles present in the oil are expelled into the oil reservoir.

Item numbers in **bold** refer to the general assemblies and parts lists pages 16-19.
## Fault Diagnosis

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<th>Possible Cause</th>
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<td>Tool will not place fastener</td>
<td>Low air pressure.</td>
<td>Increase air pressure</td>
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<td>Lack of lubrication.</td>
<td>Lubricate tool at air inlet point</td>
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<td>High broach load.</td>
<td>Check fastener grip and application hole size</td>
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<td>Check for correct size mandrel.</td>
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<td>Tail jaws switched off.</td>
<td>Switch on tail jaws</td>
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<td>Air in hydraulic system.</td>
<td>See ‘Priming Procedure’</td>
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### ‘Mandrel Slip’ - jaws will not grip mandrel

- Worn or dirty tail jaws.
- Insufficient air pressure/volume.
- Tail jaw switch inoperable.
- Air leaks to tail jaws.
- Mandrel broken and not reaching tail jaws.
- Fault in pneumatic control box.

**Remedy:**
- Clean or renew as necessary
- Increase air pressure/volume
- Replace switch
- Renew ‘O’ rings on piston
- Replace mandrel
- Contact Avdel personnel

### Jaws will not release mandrel

- Dirty tail jaws or jaw housing.
- Faulty tail jaw switch.
- Trapped air signal.
- Fault in pneumatic control box.

**Remedy:**
- Clean and lubricate
- Replace ‘O’ rings
- Check pneumatic lines
- Contact Avdel personnel

### Fasteners will not feed through nose jaws

- Tail jaws not switched on.
- Worn tail jaws.
- Cursor orientation incorrect.
- Incorrect cursor.
- Incorrect nose jaws.
- Mandrel follower spring not fitted.
- Mandrel follower length.
- Incorrect gap between fastener head and nose jaws when loaded.
- Cursor sticking.
- Worn air cursor.
- Incorrect mandrel follower spring fitted.
- Worn or broken barrel return spring.

**Remedy:**
- Switch on tail jaws
- Renew tail jaws
- Refit, ensuring correct orientation
- Fit correct cursor
- Fit correct nose jaws
- Fit correct mandrel follower spring
- Fit correct mandrel follower
- Set gap to 1.5mm - 3mm (\(\frac{1}{16}\) - \(\frac{1}{8}\))
- Clean and oil cursor
- Renew cursor
- Fit correct mandrel follower spring
- Replace barrel return spring

### Excessive tail jaw wear

- High broach load.

**Remedy:**
- Check application hole size and thickness and fastener grip capability

### Feeding more than one fastener at a time

- Mandrel slip.
- Incorrect gap between fastener head and nose jaws when loaded.

**Remedy:**
- Check as for ‘Mandrel Slip’, stage 2
- Set gap to 1.5mm - 3mm (\(\frac{1}{16}\) - \(\frac{1}{8}\))

Other symptoms or failures should be reported to your local Avdel authorised distributor or repair centre.
Notes
Declaration of Conformity

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

Model 07536

Hand Tool Serial No.

Intensifier Serial No.

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

EN ISO 12100 - parts 1 & 2
BS EN ISO 8662 - part 6
BS EN ISO 3744
ISO EN 792 - part 13-2000

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

A. Seewraj - Product Engineering Manager Automation Tools

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.
Since 1922

You are cordially invited to place your world to our dedication to quality and service.

Your local Avdel representative is at your disposal should you need to confirm latest information.

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07900-00846  B5  11/082

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