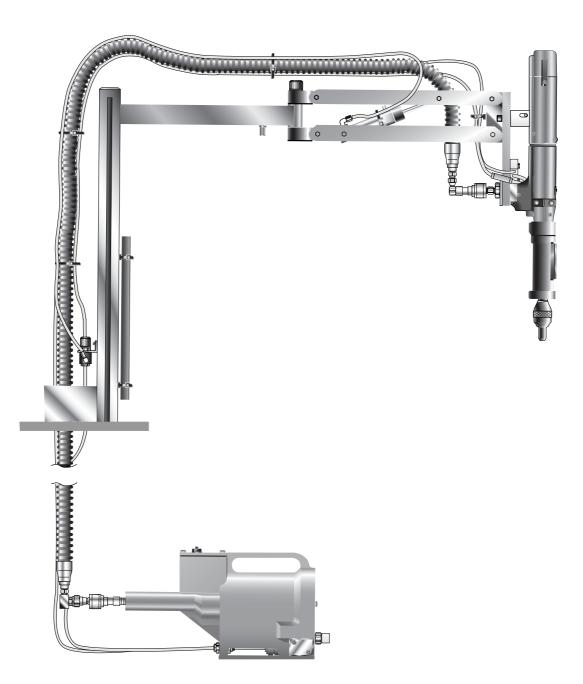


Instruction Manual



07535 MkII type

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

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 airline 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 and that hoses are always in good condition.
- 11 The operating pressure shall not exceed 7 bar (100 lbf/in²).
- 12 The combination of fastener, mandrel, hole size and sheet thickness shall be in accordance with Avdel UK Limited Specifications.
- 13 Do not operate the tool if it is not fitted with a complete nose assembly unless specifically instructed otherwise.
- 14 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.
- **15** 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.
- 16 When carrying the tool from place to place keep hands away from the trigger/lever to avoid inadvertent startup.
- 17 Excessive contact with hydraulic oil should be avoided. To minimize the possibility of rashes, care should be taken to wash thoroughly.

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 07535 Mk II Type Tool

Air Pressure	Minimum - Maximum	5-7 bar (70-100 lbf/in ²)
Free Air Volume Required	@ 5.1 bar /75 lbf/in ²	2.6 litres (0.09 ft ³)
Stroke	Minimum	30.0 mm (1.18 in)
Pull Force	@ 5.5 bar /80 lbf/in ²	3.89 kN (875 lbf)
Cycle time	Approximately	1 second
Noise Level	Less than	70 dB(A)
Weight		1.2 kg (2.64 lb)
Vibration	Less than	2.5 m/s ² (8 ft/s ²)

Specification for 07531 Intensifier

Air Pressure Intensification Ratio Minimum - Maximum

5-7 bar (70-100 lbf/in²) 32:1



Intent of Use

The pneumatic 07535 MkII type tool is designed to place Avdel[®] speed fasteners (except 1/16" Avlug[®]) making it ideal for batch or flow-line assembly in a wide variety of applications throughout all industries.

The base tool part number for the 07535 MkII model is 07530-02200. See the general assemblies on pages 26-27.

The 07535 MkII will place the same fasteners and both will place most repetition fasteners, as shown in the table below.

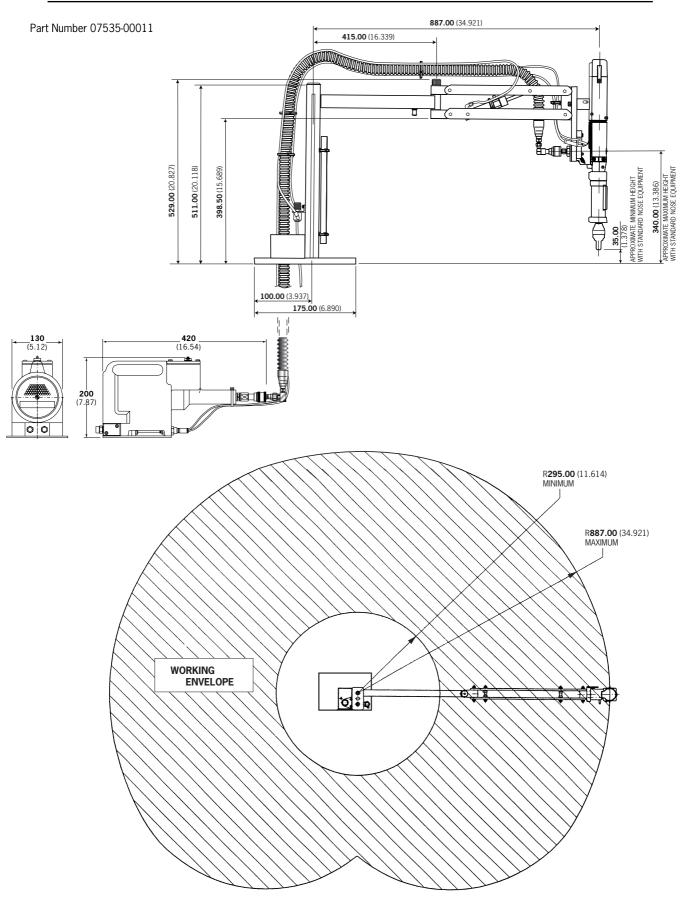
The 07535 Mkll makes use of the same nose equipment. Reference must be made to the Nose Equipment section of the manual when selecting compatible components for the type and size of fastener used in your application (see pages 12-21). Nose jaw dimensions are shown on pages 13-15.

	FASTENER SIZE											
FASTENER NAME	³ /32"	1/8"	5/32"	³ /16"	1/4"	2.5mm 2.8mm	3mm	3.5mm	4mm	6mm	M2.5 4-40 UNC	M3 6-32 UNC
CHOBERT®	•	•	•	•	•							
GROVIT®	•	•	•	•								
AVLUG®	•	•										
BRIV®	•	•	•	•						•		
RIVSCREW®						•	•	•	•			
AVTRONIC®						•						
AVSERT ®											•	•



Intent of Use

Tool Dimensions - 07535 MkII Model



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



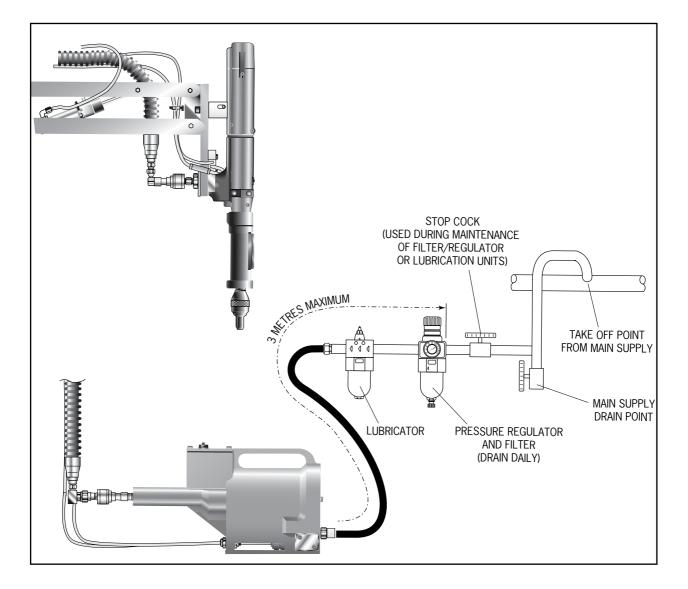
Air Supply

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.

Read daily servicing details page 22.



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

- Push the end of the larger hose from the tool into the quick release connector on the end of the intensifier.
- Push the smaller hose from the tool into the plastic collet of the bulkhead connector on the front face of the intensifier.
- Fit a hose between the male connector at the rear of the intensifier and the main air supply.



Cursor

IMPORTANT

If fitted incorrectly, the cursor will not allow feeding of the fasteners.

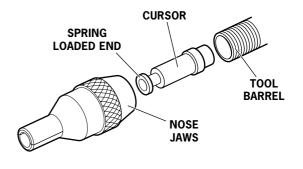
While the cursor will be fitted the correct way round when the tool is supplied, we recommend that you check its orientation before fitting the nose equipment. The sprung loaded, slightly concave, end of the cursor should point towards the front of the tool as shown in the illustration.

When fitted the correct way round, the cursor will easily slide out of the barrel when a mandrel is pushed into its centre then pulled back.

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

Item numbers in **bold** refer to the general assembly and parts list for the 07535-02500 Mkll type on pages 26-27.

- Remove the Clip 46 and slide off End Cap 38.
- Using an Allen Key, remove one cap head screw 43 ensuring that any trapped air is exhausted. Remove the second Cap Head Screw 43.
- Pull out Rear Plug 45.
- Pull out Tail Jaw Piston Assembly 14 together with Jaws 9.
- Lift out Spring 13 and Jaw Housing 8.



- Insert a mandrel into the hole in the rear end of Barrel **25** until it protrudes through the front of the barrel, then pull out the mandrel and cursor together through the front.
- Reassemble components in reverse order.
- Insert Mechanical Cursor Assembly 5 into the front of the barrel, correct way round.

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.

To identify nose equipment components or to select the correct elements, read the nose equipment section, on pages 12-21.

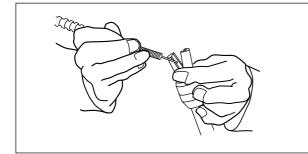
If you have been supplied with a nose jaw, mandrels and mandrel follower springs proceed with loading the tool and fitting the nose equipment as shown overleaf.

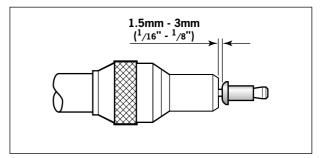
Item numbers in **bold** refer to the general assembly and parts list for the 07535-02500 Mkll type on pages 26-27.



Loading the Tool

- Connect the air supply to the tool.
- Open tail Jaws 9 which grip the mandrel, by switching off the tail jaw switch (items 26, 29 and 30).
- Screw selected nose jaws onto Barrel 25 of the tool.
- Insert a mandrel into the tail end of the fasteners through the paper pod.
- Slide the mandrel follower spring onto the mandrel ensuring correct orientation, as shown in the table on page 11.
- Gripping 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
 is protruding 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 to ensure the mandrel is gripped, by switching on the tail jaw switch (items 26, 29 and 30).





Reloading the Tool

- Open tail Jaws 9 of tool.
- 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 .

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 07535-02500 Mkll type on pages 26-27.



MA	NDR	EL FOLLOWER SPRIN	IGS IDEN	TIFICATION AND ORIENTATION
FASTENE	R SIZE	NOSE JAW (SEE NOSE EQUIPMENT SECTION)	MANDREL SIZE	MANDREL/MANDREL FOLLOWER SPRING AND FASTENER ASSEMBLY
	³ /32"	STANDARD TAPERED	ALL	MANDREL FOLLOWER SPRING MANDREL HEAD FERRULE MANDREL SPRING
BRIV®	³ /32"	LIMITED ACCESS & LIMITED ACCESS CAM OPERATED	ALL	- · ••0≣∰⊑∯⊒ <u>}</u> €₩ <u>₩</u>
	¹ /8"	ALL	ALL	
	⁵ /32"	ALL	ALL	
	³ /16"	ALL	ALL	
	6mm	STANDARD	ALL EXCEPT 3rd OVERSIZE	
CHOBERT®	³ /32"	ALL EXCEPT STANDARD TAPERED, LIMITED ACCESS	ALL	
AVLUG® GROVIT®	³ /32"	STANDARD TAPERED, LIMITED ACCESS	ALL	
	¹ /8"	ALL	ALL	
	⁵ /32"	ALL	ALL EXCEPT 3rd OVERSIZE	
CHOBERT®	⁵ /32"	ALL	3rd OVERSIZE	
GROVIT®	³ /16"	ALL	ALL EXCEPT 2nd OVERSIZE	
	³ /16"	ALL	2nd OVERSIZE	ID
CHOBERT®	¹ /4"	ALL	ALL	
RIVSCREW®	2.8mm 3mm 3.5mm 4mm	ALL	ALL	
AVSERT®	2.5mm 4 x 40 UNC	ALL	ALL	
	3mm 6 x 32 UNC	ALL	ALL	₩
	2.5mm	ALL	ALL	
AVTRONIC®	2.8mm	ALL EXCEPT LIMITED ACCESS	ALL	
	2.8mm	LIMITED ACCESS	ALL	

On speed fastening tools such as 07535 MkII type, the nose equipment always consists of three elements: a nose jaw, a mandrel and a mandrel follower spring. All three items are matched to the fastener being placed and to the hole size in the application.

IMPORTANT

To avoid complete dismantling of the tool it is essential to check the orientation of the cursor before fitting the nose equipment to the tool. See 'CURSOR' section on page 9.

It is essential that the correct nose equipment is fitted to the tool to ensure both effective placing of the fastener and SAFE operation of the tool. READ THE SAFETY INSTRUCTIONS page 4 carefully.

To identify the correct combination of nose equipment to fit your tool first select a nose jaw by reading the section below then read the mandrel section to select part numbers both for the mandrel itself and for the mandrel follower spring. Mandrels and mandrel follower springs are illustrated on page 11.

To fit the nose equipment, follow the 'Loading the Tool' procedure page 9-10.

Nose Jaws

IMPORTANT

The wrong nose jaw could result in an incorrectly placed fastener or incorrect clench.

Nose Jaws can be categorised into 7 different basic shapes as illustrated opposite, even though internal dimensions will vary according to the fastener it is intended for. Exact dimensions referring to the letters in the illustrations opposite are indicated in the 'Nose Jaw Selection Tables' on pages 14-15.

For a particular shape, there may be several options of end form giving access benefits or fastener placing enhancement.

Flat

- Normal end form of all nose jaws.
- Suitable on all applications with no access restrictions.

Universal

- Designed for use with universal head Chobert[®] fasteners.
- Can also be used with Briv[®] fasteners to obtain the highest possible clench. Note this reduces the maximum grip range of the Briv fastener by approximately 0.015" (0.4mm).

Recessed

- For use with Briv[®] fasteners ONLY.
- It gives a higher clench than a flat end form but less than a universal end form, with no reduction of the grip range of the fastener.

Tapered

- Available as shown in the 'Nose Jaw Selection Tables'.
- Allows greater accessibility than a flat end form and places the same range.

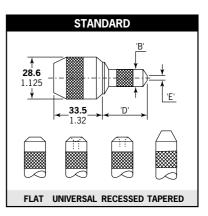
Head Forming

- For use with Rivscrew[®] fasteners ONLY.
- Deforms the head of the fastener to achieve good clench.

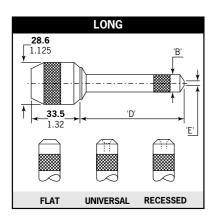


Selecting a Nose Jaw

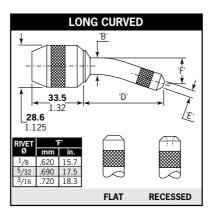
- List the name, size and material of the fastener to be placed.
- Look for this fastener in the first column of the nose jaw selection tables on page 14 if you use imperial measurements and on page 15 if you use metric units.
- Looking right across the table, take note of which nose jaws are available. ONLY those shown are available.
- Select which is most suitable for your application by referring to the respective nose jaw drawing. If your application has no access restriction, you should select the standard shape with a flat end form with or without a cam.



Available in 4 different end forms to place all fasteners (except Rivscrew). Suitable on applications with no or little access restriction.



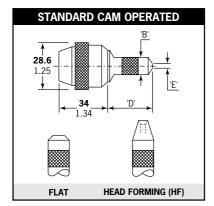
Available to place most of the fasteners. Allows more penetration into applications with no other access restriction.

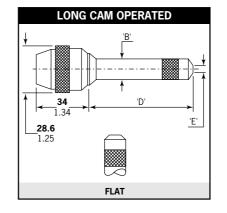


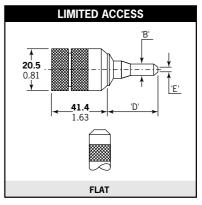
Available as shown in NOSE JAW SELEC-TION TABLE.

Allows more penetration into applications with restricted access.

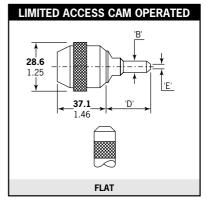
Mandrels must be curved by hand to follow the shape of the jaw.







Available as shown in NOSE JAW SELEC-TION TABLE. Allows access into very restrictive applications.



Available as shown in NOSE JAW SELECTION TABLE overleaf. Equivalent functions to the Standard and Limited Access above with the addition of a cam to ease and speed up the nose jaw opening thus the pod reloading procedure.

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



Nose Jaw Selection - Imperial

The 'REF N°' column cross references with the 'REF N°' columns in the mandrel section. It identifies both the mandrel and mandrel follower spring required for a particular nose jaw with a specific fastener.

DEE	NOS	e jaw				DEE	NOSE	JAW			
N°	TYPE AND	PART N°				N°	TYPE AND END FORM	PART N°			NS 'E'
1		07150-03003				1		07150-03203			.24
						1					.16
2	STANDARD - TAPERED	07170-03103	.36	1.30	.16	3	LIMITED ACCESS	07274-01000	.22	1.07	.16
4	LONG - FLAT	07150-04003	.41	2.30	.16	4	LONG CURVED - FLAT	07150-05003	.41	2.28	.16
5	STANDARD - FLAT	07150-03004	.41	1.18	.20	5	# STANDARD - UNIVERSAL	07150-03204	.41	1.22	.32
5	STANDARD - TAPERED	07170-03104	.41	1.19	.20	5	STD. CAM OPERATED - FLAT	07170-04600	.41	1.18	.20
6	LONG - FLAT	07150-04004	.41	2.18	.20	6	# LONG - UNIVERSAL	07150-04204	.41	2.22	.30
6	LONG CURVED - FLAT	07150-05004	.41	2.12	.20	6	LONG CAM OPERATED - FLAT	07170-05000	.41	2.18	.20
7	STANDARD - FLAT	07150-03005	.48	1.30	.24	7	# STANDARD - UNIVERSAL	07150-03205	.48	1.35	.41
7	STANDARD - TAPERED	07150-03105	.44	1.30	.24	7	STD. CAM OPERATED - FLAT	07170-04700	.48	1.30	.24
8	LONG - FLAT	07150-04005	.48	2.30	.24	8	# LONG - UNIVERSAL	07150-04205	.48	2.35	.42
8	LONG CURVED - FLAT	07150-05005	.48	2.23	.24	8	LONG CAM OPERATED - FLAT	07170-05100	.48	2.30	.24
9	STANDARD - FLAT	07150-03006	.56	1.18	.33	9	# STANDARD - UNIVERSAL	07150-03206	.56	1.24	.47
9	STANDARD - TAPERED	07150-03106	.56	1.18	.33	9	STD. CAM OPERATED - FLAT	07170-04800	.56	1.18	.33
10	LONG - FLAT	07150-04006	.56	2.30	.33	10	# LONG - UNIVERSAL	07150-04206	.56	2.39	.48
10	LONG CURVED - FLAT	07150-05006	.56	2.21	.33	10	LONG CAM OPERATED - FLAT	07170-05200	.56	2.30	.33
11	STANDARD - FLAT	07150-03008	.64	1.18	.39	11	STD. CAM OPERATED - FLAT	07170-04900	.64	1.18	.39
12	LONG - FLAT	07150-04008	.64	2.18	.39	12	LONG CAM OPERATED - FLAT	07170-05300	.64	2.18	.39
13	STANDARD - TAPERED	07170-03103	.36	1.30	.15	14	LTD. ACCESS CAM OPERATED	07177-03003	.20	1.18	.16
14	LIMITED ACCESS	07274-01000	.22	1.07	.16	-	-	-	-	-	-
15	STANDARD - FLAT	07150-03004	.41	1.18	.20	15	STANDARD - RECESSED	07170-03004	.41	1.20	.30
15	STANDARD - TAPERED	07170-03104	.41	1.19	.20	16	LONG - FLAT	07150-04004	.41	2.18	.20
16	LONG - RECESSED	07170-03204	.41	2.18	.30	16	LONG CURVED - FLAT	07150-05004	.41	2.12	.20
16	LONG CURVED - RECESSED	07170-03304	.41	2.12	.30	-	-	-	-	-	-
17	STANDARD - FLAT	07150-03005	.48	1.30	.24	17	STANDARD - RECESSED	07170-03005	.48	1.32	.41
18	LONG - FLAT	07150-04005	.48	2.30	.24	18	LONG - RECESSED	07170-03205	.48	2.30	.41
18	LONG CURVED - FLAT	07150-05005	.48	2.23	.24	18	LONG CURVED - RECESSED	07170-03305	.48	2.23	.41
19	STANDARD - FLAT	07150-03005	.48	1.30	.24	19	STANDARD - RECESSED	07170-03005	.48	1.32	.41
20	LONG - FLAT	07150-04005	.48	2.30	.24	20	LONG - RECESSED	07170-03205	.48	2.30	.41
20	LONG CURVED - FLAT	07150-05005	.48	2.23	.24	20	LONG CURVED - RECESSED	07170-03305	.48	2.23	.41
21	STANDARD - FLAT	07150-03006	.56	1.18	.33	21	STANDARD - RECESSED	07170-03006	.56	1.20	.47
22	LONG - FLAT	07150-04006	.56	2.30	.33	22	LONG - RECESSED	07170-03206	.56	2.30	.47
22	LONG CURVED - FLAT	07150-05006	.56	2.21	.33	22	LONG CURVED - RECESSED	07170-03306	.56	2.21	.47
23	STANDARD - FLAT	07150-03006	.56	1.18	.33	23	STANDARD - RECESSED	07170-03006	.56	1.20	.47
24	LONG - FLAT	07150-04006	.56	2.30	.33	24	LONG - RECESSED	07170-03206	.56	2.30	.47
24	LONG CURVED - FLAT	07150-05006	.56	2.21	.33	24	LONG CURVED - RECESSED	07170-03306	.56	2.21	.47
25	STD. CAM OPERATED	07170-05600	.64	1.21	.52	25	STANDARD - FLAT	07170-05800	.64	1.21	.52
26	LONG CAM OPERATED	07170-05700	.64	2.19	.52	26	LONG - FLAT	07170-05900	.64	2.19	.52
27	STANDARD - FLAT	07150-03003	.36	1.30	.16	27	STANDARD - TAPERED	07150-03103	.36	1.30	.16
27	STD. CAM OPERATED - FLAT	07170-04500	.36	1.30	.16	28	LONG - FLAT	07150-04003	.41	2.30	.16
28	LONG CURVED - FLAT	07150-05003	.41	2.28	.16		-	-	-	-	-
29	STANDARD - FLAT	07150-03004	.41	1.18	.20	29	STANDARD - TAPERED	07170-03104	.41	1.19	.20
29	STD. CAM OPERATED - FLAT	07170-04600	.41	1.18	.20	30	LONG - FLAT	07150-04004	.41	2.18	.20
30	LONG CURVED - FLAT	07150-05004	.41		.20	30	LONG CAM OPERATED - FLAT	07170-05000	.41	2.18	.20
31	STANDARD - FLAT	07150-03003	.36	1.30	.16	-	-	-	-	-	-
32	STANDARD - FLAT	07150-03004	.41	1.18	.20	32	STD. CAM OPERATED - FLAT	07170-04600	.41	1.18	.20
33	STANDARD - FLAT	07150-03003	.36	1.30	.16	33	LTD. ACCESS CAM OPERATED	07271-08000	.41	1.18	.16
34	LONG - FLAT	07150-04003	.41	2.30	.16	-	-	-	-	-	-
35	STANDARD - FLAT	07271-05600	.36	1.30	.16	36	LTD. ACCESS CAM OPERATED	07271-08100	.40	1.18	.16
37	LONG - FLAT	07271-05900	.41	2.30	.16	-	-	-	-	-	-
38	STD. CAM OPERATED - HF	07271-03000	.41	1.18	.24	-	-	-	-	-	-
	CTD CAM ODEDATED HE	07271-03000	.41	1.18	.24		-				
39 40	STD. CAM OPERATED - HF STD. CAM OPERATED - HF	07271-03000	.41	1.18	.24	-	-	-	-	-	-
	4 5 6 6 7 7 8 9 9 9 10 10 10 11 12 13 13 14 15 16 16 20 20 22 23 24 22 23 24 22 23 24 25 26 27 22 23 24 25 26 27 22 23 31 32 33 34 35 37 34	Ref.TYPE AND END FORM1STANDARD - FLAT1STANDARD - FLAT2STANDARD - TAPERED4LONG - FLAT5STANDARD - TAPERED6LONG - FLAT7STANDARD - TAPERED8LONG CURVED - FLAT7STANDARD - TAPERED8LONG - FLAT9STANDARD - TAPERED10LONG CURVED - FLAT9STANDARD - TAPERED10LONG CURVED - FLAT11STANDARD - TAPERED12LONG CURVED - FLAT13STANDARD - TAPERED14LIMITED ACCESS15STANDARD - TAPERED16LONG - RECESSED17STANDARD - TAPERED18LONG CURVED - FLAT19STANDARD - TAPERED16LONG CURVED - RECESSED17STANDARD - TAPERED18LONG CURVED - FLAT19STANDARD - FLAT19STANDARD - FLAT20LONG CURVED - FLAT21STANDARD - FLAT22LONG CURVED - FLAT23STANDARD - FLAT24LONG CURVED - FLAT25STD. CAM OPERATED26LONG CURVED - FLAT27STANDARD - FLAT28LONG CURVED - FLAT29STANDARD - FLAT30LONG CURVED - FLAT31STANDARD - FLAT33STANDARD - FLAT34LONG - FLAT35STANDARD - FLAT36STANDARD - FLAT <td>FKF END FORMPART N° END FORMPART N° END FORM1STANDARD - FLAT07150-030032STANDARD - TAPERED07170-031034LONG - FLAT07150-030045STANDARD - TAPERED07170-031036LONG - FLAT07150-040046LONG - FLAT07150-040046LONG CURVED - FLAT07150-030057STANDARD - TAPERED07150-030057STANDARD - TAPERED07150-030058LONG CURVED - FLAT07150-030059STANDARD - TAPERED07150-030069STANDARD - TAPERED07150-030069STANDARD - TAPERED07150-0300610LONG - FLAT07150-0300611STANDARD - TAPERED07150-0300812LONG - FLAT07150-0300813STANDARD - TAPERED07170-0310314LIMITED ACCESS07274-0100015STANDARD - FLAT07150-0300415STANDARD - FLAT07150-0300416LONG CURVED - FLAT07150-0300417STANDARD - FLAT07150-0300518LONG CURVED - FLAT07150-0300519STANDARD - FLAT07150-0300620LONG CURVED - FLAT07150-0300621STANDARD - FLAT07150-0300622LONG CURVED - FLAT07150-0300623STANDARD - FLAT07150-0300624LONG CURVED - FLAT07150-0300625STD. CAM OPERATED07170-0450026</td> <td>TYPE AND END FORM PART N° END FORM DIM B' CONSCIPENTED - FLAT OT150-03003 .36 1 STANDARD - FLAT OT170-03100 .36 2 STANDARD - TAPERED OT170-03100 .36 4 LONG - FLAT OT150-03004 .41 5 STANDARD - TAPERED OT170-03104 .41 6 LONG - FLAT OT150-03004 .41 6 LONG CURVED - FLAT OT150-03005 .48 7 STANDARD - TAPERED OT150-03005 .48 8 LONG CURVED - FLAT OT150-03005 .48 9 STANDARD - TAPERED OT150-03006 .56 9 STANDARD - TAPERED OT150-03006 .56 10 LONG CURVED - FLAT OT150-03006 .56 11 STANDARD - TAPERED OT150-03008 .64 12 LONG CURVED - FLAT OT150-03008 .64 13 STANDARD - TAPERED OT170-03103 .36 14 LIMITED ACCESS O7274-01000 .22 <</br></td> <td>TYPE AND END FORM PART N° DIMENSIO B° 1 STANDARD - FLAT 07150-03003 3.6 1.30 2 STANDARD - TAPERED 07170-04500 3.6 1.30 4 LONG - FLAT 07150-04003 4.1 1.18 5 STANDARD - TAPERED 07170-03104 4.1 1.18 6 LONG - FLAT 07150-04004 4.1 1.18 7 STANDARD - TAPERED 07170-03104 4.1 1.18 6 LONG CURVED - FLAT 07150-05004 4.1 2.12 7 STANDARD - TAPERED 07150-03005 4.8 2.30 8 LONG CURVED - FLAT 07150-04005 5.6 1.18 9 STANDARD - TAPERED 07150-03006 5.6 2.30 10 LONG CURVED - FLAT 07150-04008 6.4 1.18 12 LONG CURVED - FLAT 07150-04008 6.4 1.81 10 LONG CURVED - FLAT 07150-04008 6.4 1.81 11 STANDARD -</td> <th>FYPE END FORMPART N° END FORMDI DVSU DV1STANDARD FLAT07150-03003361.30.162STANDARD -TAPERED07170-03103361.30.163LONG -FLAT07150-03003.412.30.165STANDARD - TAPERED07170-03104.411.18.205STANDARD - FLAT07150-03004.41.118.206LONG -FLAT07150-03004.41.118.207STANDARD - FLAT07150-03004.41.212.207STANDARD - FLAT07150-03005.48.30.248LONG CURVED - FLAT07150-03005.48.23.249STANDARD - TAPERED07150-03006.48.23.249STANDARD - FLAT07150-03006.56.118.339STANDARD - FLAT07150-03006.56.18.3310LONG CURVED - FLAT07150-03006.56.21.8.3311STANDARD - FLAT07150-03006.56.18.3912LONG CURVED - FLAT07150-03008.44.19.9.2113STANDARD - TAPERED07170-03103.36.13.0.1614LIMTED ACCESS0727-01000.22.107.1615STANDARD - FLAT07150-03005.48.30.2414LIMTED ACCESSED07170-03104.41.19.2015STANDARD - FL</th> <td>H.F. TYPE AND END FORM PART N DIMENSIONSE B PAF B DIMENSIONSE B PAF B DIMENSIONSE B PAF B PAF B DIMENSIONSE B PAF B DIMENSIONSE B PAF B DIMENSIONSE B PAF B DIMENSIONSE B PAF B DIMENSIONSE B <thdimensionse B DIMENSIONSE B</thdimensionse </td> <td>No. TYPE AND EVD FORM PART M DURENSONS B Res Res Type AND EVD FORM 1 STANDARD - FLAT 0715003003 36 1.30 1.6 1 # STANDARD - IMPERSI L 2 STAMDARD - TAFERED 0717004500 36 1.30 1.6 1 LD ACCESS CAM OPERATED 5 STAMDARD - TAFERED 0717004500 41 2.30 1.6 4 LOMIC - CACCESS 5 STAMDARD - TAFERED 0717004500 41 1.18 20 5 # STANDARD - UNVERSAL 6 LONG CIRVED - FLAT 0715004004 41 2.18 20 6 LONG CARVED - FLAT 7 STANDARD - TAFERED 0715004005 48 1.30 24 7 # STANDARD - UNVERSAL 8 LONG CURVED - FLAT 0715004005 48 2.30 24 8 # UONG - UNVERSAL 9 STANDARD - TAFERED 0715004005 56 1.83 39 # STANDARD - UNVERSAL 10 LONG CURVED - FLAT 0715004005</td> <td>Her TYPE AND EXPLOSIONS PART IV BY DIMENSIONS BY TYPE AND EXPLOSIONS PART IV EXPLOSIONS 1 STMCARD - LAT 0715003003 36 1.30 16 1 # STMCARD - UNICERSM. 071703003 2 STMOARD - TAPERD 0717040500 36 1.30 16 1 LDN - CLESS CM OPERATED 0717703003 4 LONG - TAPERD 0717043104 41 1.18 20 5 STMCARD - FLAT 0715004004 41 1.18 20 5 STMCARD - FLAT 0717043104 41 1.19 20 5 STMCARD - FLAT 071704304 41 1.18 20 6 LONG CURRED FLAT 071504004 41 2.18 20 6 LONG CURRED FLAT 071504005 48 1.30 24 7 STMOARD - INFERAL 071504005 48 2.30 24 8 LONG CUNRERAL 071504005 48 2.30 24 8 LONG CUNRERAL 071504005 48 2.30 24 8 LONG CUNRERAL 071</td> <td>No. Part M Dimensional No. Part M Dimensional No. Part M Dimensional Dimensional 1 STANDARD. FLAT OT12004000 36 1.30 1.6 1 UT ACCESS CAM OPERATED. 0717703033 20 2 STANDARD. FLAT OT12004010 36 1.30 1.6 3 LUNTED ACCESS CAM OPERATED. 0717703033 20 3 STANDARD. FLAT OT12004104 11.18 20 5 STANDARD. UNITESAL OT12004003 41 5 STANDARD. FLAT OT12004104 41 1.218 20 6 4.00NC UNITESAL OT12004004 41 6 LONG FLAT OT15004005 48 1.212 20 6 1.00NG CAM OPERATED. FLAT OT17004000 48 2.30 24 8 FLONG AM OPERATED. FLAT OT17004000 48 2.30 24 8 FLONG AM OPERATEL OT17004000 48 2.30 24 8 FLONG AM OPERATEL OT17004000 56 1.30 10 4.00NG OVERAT</td> <td>No. PART IV DIMENSIONS TO 1 No. PYE AND TO 10 PYE AND TO 10 FORM PART IV DIMENSIONS TO 10 FOR FORM PART IV DIMENSIONS TO 10 FOR FORM PART IV DIMENSIONS TO 10 FOR FOR FOR FORM PART IV DIMENSIONS TO 107 FOR FOR FOR FOR FOR FOR FOR FOR FOR FOR</td>	FKF END FORMPART N° END FORMPART N° END FORM1STANDARD - FLAT07150-030032STANDARD - TAPERED07170-031034LONG - FLAT07150-030045STANDARD - TAPERED07170-031036LONG - FLAT07150-040046LONG - FLAT07150-040046LONG CURVED - FLAT07150-030057STANDARD - TAPERED07150-030057STANDARD - TAPERED07150-030058LONG CURVED - FLAT07150-030059STANDARD - TAPERED07150-030069STANDARD - TAPERED07150-030069STANDARD - TAPERED07150-0300610LONG - FLAT07150-0300611STANDARD - TAPERED07150-0300812LONG - FLAT07150-0300813STANDARD - TAPERED07170-0310314LIMITED ACCESS07274-0100015STANDARD - FLAT07150-0300415STANDARD - FLAT07150-0300416LONG CURVED - FLAT07150-0300417STANDARD - FLAT07150-0300518LONG CURVED - FLAT07150-0300519STANDARD - FLAT07150-0300620LONG CURVED - FLAT07150-0300621STANDARD - FLAT07150-0300622LONG CURVED - FLAT07150-0300623STANDARD - FLAT07150-0300624LONG CURVED - FLAT07150-0300625STD. CAM OPERATED07170-0450026	TYPE AND END FORM PART N° END FORM DIM 	TYPE AND END FORM PART N° DIMENSIO B° 1 STANDARD - FLAT 07150-03003 3.6 1.30 2 STANDARD - TAPERED 07170-04500 3.6 1.30 4 LONG - FLAT 07150-04003 4.1 1.18 5 STANDARD - TAPERED 07170-03104 4.1 1.18 6 LONG - FLAT 07150-04004 4.1 1.18 7 STANDARD - TAPERED 07170-03104 4.1 1.18 6 LONG CURVED - FLAT 07150-05004 4.1 2.12 7 STANDARD - TAPERED 07150-03005 4.8 2.30 8 LONG CURVED - FLAT 07150-04005 5.6 1.18 9 STANDARD - TAPERED 07150-03006 5.6 2.30 10 LONG CURVED - FLAT 07150-04008 6.4 1.18 12 LONG CURVED - FLAT 07150-04008 6.4 1.81 10 LONG CURVED - FLAT 07150-04008 6.4 1.81 11 STANDARD -	FYPE END FORMPART N° END FORMDI DVSU DV1STANDARD FLAT07150-03003361.30.162STANDARD -TAPERED07170-03103361.30.163LONG -FLAT07150-03003.412.30.165STANDARD - TAPERED07170-03104.411.18.205STANDARD - FLAT07150-03004.41.118.206LONG -FLAT07150-03004.41.118.207STANDARD - FLAT07150-03004.41.212.207STANDARD - FLAT07150-03005.48.30.248LONG CURVED - FLAT07150-03005.48.23.249STANDARD - TAPERED07150-03006.48.23.249STANDARD - FLAT07150-03006.56.118.339STANDARD - FLAT07150-03006.56.18.3310LONG CURVED - FLAT07150-03006.56.21.8.3311STANDARD - FLAT07150-03006.56.18.3912LONG CURVED - FLAT07150-03008.44.19.9.2113STANDARD - TAPERED07170-03103.36.13.0.1614LIMTED ACCESS0727-01000.22.107.1615STANDARD - FLAT07150-03005.48.30.2414LIMTED ACCESSED07170-03104.41.19.2015STANDARD - FL	H.F. TYPE AND END FORM PART N DIMENSIONSE B PAF B DIMENSIONSE B PAF B DIMENSIONSE B PAF B PAF B DIMENSIONSE B PAF B DIMENSIONSE B PAF B DIMENSIONSE B PAF B DIMENSIONSE B PAF B DIMENSIONSE B DIMENSIONSE B <thdimensionse B DIMENSIONSE B</thdimensionse 	No. TYPE AND EVD FORM PART M DURENSONS B Res Res Type AND EVD FORM 1 STANDARD - FLAT 0715003003 36 1.30 1.6 1 # STANDARD - IMPERSI L 2 STAMDARD - TAFERED 0717004500 36 1.30 1.6 1 LD ACCESS CAM OPERATED 5 STAMDARD - TAFERED 0717004500 41 2.30 1.6 4 LOMIC - CACCESS 5 STAMDARD - TAFERED 0717004500 41 1.18 20 5 # STANDARD - UNVERSAL 6 LONG CIRVED - FLAT 0715004004 41 2.18 20 6 LONG CARVED - FLAT 7 STANDARD - TAFERED 0715004005 48 1.30 24 7 # STANDARD - UNVERSAL 8 LONG CURVED - FLAT 0715004005 48 2.30 24 8 # UONG - UNVERSAL 9 STANDARD - TAFERED 0715004005 56 1.83 39 # STANDARD - UNVERSAL 10 LONG CURVED - FLAT 0715004005	Her TYPE AND EXPLOSIONS PART IV BY DIMENSIONS BY TYPE AND EXPLOSIONS PART IV EXPLOSIONS 1 STMCARD - LAT 0715003003 36 1.30 16 1 # STMCARD - UNICERSM. 071703003 2 STMOARD - TAPERD 0717040500 36 1.30 16 1 LDN - CLESS CM OPERATED 0717703003 4 LONG - TAPERD 0717043104 41 1.18 20 5 STMCARD - FLAT 0715004004 41 1.18 20 5 STMCARD - FLAT 0717043104 41 1.19 20 5 STMCARD - FLAT 071704304 41 1.18 20 6 LONG CURRED FLAT 071504004 41 2.18 20 6 LONG CURRED FLAT 071504005 48 1.30 24 7 STMOARD - INFERAL 071504005 48 2.30 24 8 LONG CUNRERAL 071504005 48 2.30 24 8 LONG CUNRERAL 071504005 48 2.30 24 8 LONG CUNRERAL 071	No. Part M Dimensional No. Part M Dimensional No. Part M Dimensional Dimensional 1 STANDARD. FLAT OT12004000 36 1.30 1.6 1 UT ACCESS CAM OPERATED. 0717703033 20 2 STANDARD. FLAT OT12004010 36 1.30 1.6 3 LUNTED ACCESS CAM OPERATED. 0717703033 20 3 STANDARD. FLAT OT12004104 11.18 20 5 STANDARD. UNITESAL OT12004003 41 5 STANDARD. FLAT OT12004104 41 1.218 20 6 4.00NC UNITESAL OT12004004 41 6 LONG FLAT OT15004005 48 1.212 20 6 1.00NG CAM OPERATED. FLAT OT17004000 48 2.30 24 8 FLONG AM OPERATED. FLAT OT17004000 48 2.30 24 8 FLONG AM OPERATEL OT17004000 48 2.30 24 8 FLONG AM OPERATEL OT17004000 56 1.30 10 4.00NG OVERAT	No. PART IV DIMENSIONS TO 1 No. PYE AND TO 10 PYE AND TO 10 FORM PART IV DIMENSIONS TO 10 FOR FORM PART IV DIMENSIONS TO 10 FOR FORM PART IV DIMENSIONS TO 10 FOR FOR FOR FORM PART IV DIMENSIONS TO 107 FOR

These nose jaws are suitable for placing Chobert[®] rivets with a Universal Head Form. When used on the equivalent size of Briv[®], the highest possible clench is achieved. Note that when using Briv[®] fasteners, the maximum grip is reduced by approximately 0.015" (0.4mm). possible clench is achieved. Note that when using Briv fasteners, the maximum grip is reduced by approximately 0.015" (0.4 mm).



Nose Jaw Selection - Metric

	DEE	NOS	E JAW		NOSE JAW							
FASTENER	REF N°	TYPE AND END FORM	PART N°				REF. N°	TYPE AND END FORM	PART N°			
	1	STANDARD - FLAT	07150-03003	'B' 9.14	'D' 33.02	4.06	1	# STANDARD - UNIVERSAL	07150-03203	'B' 9.14	'D' 33.78	E'
	1	STD. CAM OPERATED - FLAT	07170-04500	9.14	33.02	4.06	1	LTD. ACCESS CAM OPERATED	07177-03003	5.08	29.97	4.06
3/32" CHOBERT® & GROVIT®	2	STANDARD - TAPERED	07170-03103	9.14	33.02	4.06	3	LIMITED ACCESS	07274-01000	5.59	27.18	-
	4	LONG - FLAT	07150-04003	10.41	58.42	4.06	4	LONG CURVED - FLAT	07150-05003	10.41	57.91	4.06
	5	STANDARD - FLAT	07150-03004	10.41	29.97	5.08	5	# STANDARD - UNIVERSAL	07150-03204	10.41	30.99	
1/8" CHOBERT®	5	STANDARD - TAPERED	07170-03104	10.41	30.23	5.08	5	STD. CAM OPERATED - FLAT	07170-04600	10.41	29.97	5.08
& GROVIT®	6	LONG - FLAT	07150-04004	10.41	55.37	5.08	6	# LONG - UNIVERSAL	07150-04204	10.41	56.39	7.62
	6	LONG CURVED - FLAT	07150-05004	10.41	53.85	5.08	6	LONG CAM OPERATED - FLAT	07170-05000	10.41	55.37	5.08
	7	STANDARD - FLAT	07150-03005	12.19	33.02	6.10	7	# STANDARD - UNIVERSAL	07150-03205	12.19	34.29	10.4
5/32" CHOBERT®	7	STANDARD - TAPERED	07150-03105	11.18	33.02	6.10	7	STD. CAM OPERATED - FLAT	07170-04700	12.19	33.02	6.10
& GROVIT®	8	LONG - FLAT	07150-04005	12.19	58.42	6.10	8	# LONG - UNIVERSAL	07150-04205	12.19	59.69	10.6
	8	LONG CURVED - FLAT	07150-05005	12.19	56.64	6.10	8	LONG CAM OPERATED - FLAT	07170-05100	12.19	58.42	6.10
	9	STANDARD - FLAT	07150-03006	14.22	29.97	8.38	9	# STANDARD - UNIVERSAL	07150-03206	14.22	31.50	11.9
3/16" CHOBERT®	9	STANDARD - TAPERED	07150-03106	14.22	29.97	8.38	9	STD. CAM OPERATED - FLAT	07170-04800	14.22	29.97	8.38
& GROVIT®	10	LONG - FLAT	07150-04006	14.22	58.42	8.38	10	# LONG - UNIVERSAL	07150-04206	14.22	60.71	12.1
	10	LONG CURVED - FLAT	07150-05006	14.22	56.13	8.38	10	LONG CAM OPERATED - FLAT	07170-05200	14.22	58.42	8.38
1/4" CHOBERT®	11	STANDARD - FLAT	07150-03008	16.26	29.97	9.91	11	STD. CAM OPERATED - FLAT	07170-04900	16.26	29.97	9.91
,	12	LONG - FLAT	07150-04008	16.26	55.37	9.91	12	LONG CAM OPERATED - FLAT	07170-05300	16.26	55.37	9.91
3/32" BRIV®	13	STANDARD - TAPERED	07170-03103	9.14	33.02	3.81	14	LTD. ACCESS CAM OPERATED	07177-03003	5.08	29.97	4.06
Brass only	14	LIMITED ACCESS	07274-01000	5.59	27.18	4.06	•	-	-	-	-	-
	15	STANDARD - FLAT	07150-03004	10.41	29.97	5.08	15	STANDARD - RECESSED	07170-03004	10.41	30.48	7.62
1/8" BRIV®	15	STANDARD - TAPERED	07170-03104	10.41	30.23	5.08	16	LONG - FLAT	07150-04004	10.41	55.37	5.08
Al. Alloy, Brass, Steel	16	LONG - RECESSED	07170-03204	10.41	55.37	7.62	16	LONG CURVED - FLAT	07150-05004	10.41	53.85	5.08
	16	LONG CURVED - RECESSED	07170-03304	10.41	53.85	7.62	-	-	-	-	-	-
5/32" BRIV®	17	STANDARD - FLAT	07150-03005	12.19	33.02	6.10	17	STANDARD - RECESSED	07170-03005	12.19	33.53	10.4
Al. Allov.	18	LONG - FLAT	07150-04005	12.19	58.42	6.10	18	LONG - RECESSED	07170-03205	12.19	58.42	10.4
Brass, Steel	18	LONG CURVED - FLAT	07150-05005	12.19	56.64	6.10	18	LONG CURVED - RECESSED	07170-03305	12.19	56.64	10.4
	19	STANDARD - FLAT	07150-03005	12.19	33.02	6.10	19	STANDARD - RECESSED	07170-03005	12.19	33.53	10.4
5/32" BRIV® St.Steel only	20	LONG - FLAT	07150-04005	12.19	58.42	6.10	20	LONG - RECESSED	07170-03205	12.19	58.42	10.4
	20	LONG CURVED - FLAT	07150-05005	12.19	56.64	6.10	20	LONG CURVED - RECESSED	07170-03305	12.19	56.64	10.4
3/16" BRIV®	21	STANDARD - FLAT	07150-03006	14.22	29.97	8.38	21	STANDARD - RECESSED	07170-03006	14.22		-
Al. Alloy, Brass, Steel	22	LONG - FLAT	07150-04006	14.22	58.42		22	LONG - RECESSED	07170-03206	14.22		11.9
Brass, Steel	22	LONG CURVED - FLAT	07150-05006	14.22	56.13		22	LONG CURVED - RECESSED	07170-03306	14.22		-
3/16" BRIV®	23	STANDARD - FLAT	07150-03006	14.22	29.97	8.38	23	STANDARD - RECESSED	07170-03006	14.22	-	-
St.Steel only	24	LONG - FLAT	07150-04006	14.22	58.42	8.38	24	LONG - RECESSED	07170-03206	14.22		
	24	LONG CURVED - FLAT	07150-05006	14.22	56.13		24	LONG CURVED - RECESSED	07170-03306	14.22		-
6mm BRIV®	25	STD. CAM OPERATED	07170-05600	16.33			25	STANDARD - FLAT	07170-05800	16.33		-
Al. Alloy, Steel	26	LONG CAM OPERATED	07170-05700	16.33	55.65		26	LONG - FLAT	07170-05900	16.33		
	27	STANDARD - FLAT	07150-03003	9.14	33.02		27	STANDARD - TAPERED	07150-03103	9.14	33.02	4.06
3/32" AVLUG®	27	STD. CAM OPERATED - FLAT	07170-04500		33.02		28	LONG - FLAT	07150-04003	10.41	36.42	4.00
	28	LONG CURVED - FLAT	07150-05003				-		-	-	-	-
1 /0" AVI 1100	29	STANDARD - FLAT STD. CAM OPERATED - FLAT	07150-03004		29.97 29.97		29 30	STANDARD - TAPERED LONG - FLAT	07170-03104	_	30.23	
1/8" AVLUG®	29		07150-05004		53.85		30	LONG CAM OPERATED - FLAT	07130-04004		55.37	
2.5mm, 4-40 UNC AVSERT®	30	LONG CURVED - FLAT	07150-03004	9.14				LUNG CAW OPERATED - FLAT	07170-05000	- 10.41	55.57	5.00
AVSERT® 3.0mm, 6-32 UNC AVSERT®	31 32	STANDARD - FLAT STANDARD - FLAT	07150-03003		29.97		32	STD. CAM OPERATED - FLAT	07170-04600	10.41	29.97	5.08
AVSERT®	32		07150-03004	9.14	33.02		32	LTD. ACCESS CAM OPERATED	07170-04600	_	29.97	4.06
2.5mm AVTRONIC®	33	STANDARD - FLAT	07150-03003	10.41			-	-				
	34	LONG - FLAT	07130-04003	9.14	33.02		36	LTD. ACCESS CAM OPERATED	07271-08100	10.16	29.97	4.06
2.8mm AVTRONIC®	35	STANDARD - FLAT	07271-05800		58.42		- 30	-			29.97	+.00
.8mm RIVSCREW®	37	LONG - FLAT STD. CAM OPERATED - HF	07271-03900	10.41			•	-	-	-	-	
3.0mm RIVSCREW®	39	STD. CAM OPERATED - HF	07271-03000		29.97			-	_	-	-	
3.5mm RIVSCREW®	40	STD. CAM OPERATED - HF	07271-03500		29.97		-		-	-	-	
		JID. UNWI OF ERATED - FIF	0.2.100000	1-0.71	/	1 0.10		1	1	1	1	1

These nose jaws are suitable for placing Chobert[®] rivets with a Universal Head Form. When used on the equivalent size of Briv[®], the highest possible clench is achieved. Note that when using Briv[®] fasteners, the maximum grip is reduced by approximately 0.015" (0.4 mm). possible clench is achieved. Note that when using Briv fasteners, the maximum grip is reduced by approximately 0.015" (0.4 mm).

Mandrels and Mandrel Follower Springs

Mandrels and mandrel follower springs, illustrated on page 11 need to be selected to suit the fastener type and size as well as the size of the hole in the application. Use of the wrong mandrel could increase the risk of breakage and the wear of the mandrel head. Feeding problems could occur if the wrong mandrel follower spring is used.

IMPORTANT

READ THE SAFETY INSTRUCTIONS page 4 carefully.

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 of 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 our calibrated measuring tool. These tools can also be purchased under part number 07900-09080, supplied with all necessary information for testing.

Chobert[®] and Grovit[®] - Imperial

For mandrel or mandrel follower spring selection, follow instructions on page 18.

07150-07206

07150-09206

.150

.372

	REF.	HOLE		STANDARD	MANDR	EL - GREEN	_	HOLE		1ST OVERSIZE	MAND	REL - YELLOW		SPRING
FASTENER	N°	SIZE	HEAD Ø	MANDREL PART N°	P Max.	# S/R MANDREL PART N°	P Max.	SIZE	HEAD Ø	MANDREL PART N°	P Max.	# S/R MANDREL PART N°	P Max.	PART N°
	1	AS REC.	.0725	07150-06003	.166	07150-08003	.071	+.0015	.074	07150-06303	.174	-	-	07150-06803
	1	-		-	-	-		+.0035	.076	-	-	07150-08103	.078	07150-06803
3/32" CHOBERT®	2	AS REC.	.0725	07150-06003	.166	07150-08003	.071	+.0015	.074	07150-06303	.174	-	-	07170-06873
& GROVIT®	2	-	-	-	-	-	-	+.0035	.076	-	-	07150-08103	.078	07170-06873
	3	AS REC.	.0725	07150-06003	.166	07150-08003	.071	+.0015	.074	07150-06303	.174	-	-	07170-06903
	3	-	-	-	-	-	-	+.0035	.076	-	-	07150-08103	.078	07170-06903
	4	AS REC.	.0725	07150-07003	.166	07150-09003	.071	+.0035	.076	-		07150-09103	.078	07150-07803
1/8" CHOBERT®	5	AS REC.	.088	07150-06004	.216	07150-08004	.090	+.004	.092	07150-06104	.237	07150-08104	.098	07150-06804
& GROVIT®	6	AS REC.	.088	07150-07004	.216	07150-09004	.090	+.004	.092	07150-07104	.237	07150-09104	.098	07150-07804
	7	AS REC.	.107	07150-06005	.244	07150-08005	.100	+.008	.115	07150-06105	.284	07150-08105	.116	07170-06875
5/32" CHOBERT®	7	-	-	-	-	-	-	-	-	-	-	-	-	-
& GROVIT®	8	AS REC.	.107	07150-07005	.244	07150-09005	.100	+.008	.115	07150-07105	.284	07150-09105	.116	07170-07875
	8	-	-	-	-	-	-	-	-	-	-	-	-	-
	9	AS REC.	.132	07150-06006	.247	07150-08006	.102	+.014	.146	07150-06106	.320	07150-08106	.130	07170-06876
3/16" CHOBERT®	9	-	-	-	-	-	-	-	-	-	-	-	-	-
& GROVIT®	10	AS REC.	.132	07150-07006	.247	07150-09006	.102	+.014	.146	07150-07106	.320	07150-09106	.130	07170-07876
	10	-	-	-	-	-	-	-	-	-		-	-	-
1/4" CHOBERT®	11	AS REC.	.184	07150-06008	.268	07150-08008	.110	+.012	.196	07150-06108	.330	07150-08108	.134	07150-06808
1/4 CHOBERT®	12	AS REC.	.184	07150-07008	.268	07150-09008	.110	+.012	.196	07150-07108	.330	07150-09108	.134	07150-07808
	REF.	HOLE		2ND OVERSI	ZE MAN	DREL - BLUE		HOLE		3RD OVERS	ize man	DREL - RED		SPRING
FASTENER	N°	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	# S/R MANDREL PART N°	P MAX.	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	# S/R MANDREL PART N°	P MAX.	PART Nº
	1	+.0035	.076	07150-06103	.185	-	-	-	-	-	-	-	-	07150-06803
	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	+.0035	.076	07150-06103	.185	-	-	-	-	-	-	-	-	07170-06873
3/32" CHOBERT® & GROVIT®	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	+.0035	.076	07150-06103	.185	-	-	-	-	-	-	-	-	07170-06903
	3	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	+.0035	.076	07150-07103	.185	-	-	-	-	-	-	-	-	07150-07803
1/8" CHOBERT®	5	+.010	.098	07150-06204	.268	07150-08204	.110	+.014	.102	07150-06304	.288	07150-08304	.118	07150-06804
& GROVIT®	6	+.010	.098	07150-07204	.268	07150-09204	.110	+.014	.102	07150-07304	.288	07150-09304	.118	07150-07804
	7	+.015	.122	07150-06205	.320	07150-08205	.130	-	-	-	-	-	-	07170-06875
5/32" CHOBERT®	7	-	-	-	-	-	-	+.025	.132	07150-06305	.372	07150-08305	.150	07150-06805
& GROVIT®	8	+.015	.122	07150-07205	.320	07150-09205	.130	-	-	-	-	-	-	07170-07875
	8	-	-	-	-	-	-	+.025	.132	07150-07305	.372	07150-09305	.150	07150-07805
	9	-	-	-	-	-	-	-	-	-	-	-	-	-
3/16" CHOBERT®	9	+.024	.156	07150-06206	.372	07150-08206	.150	-	-	-	-	-	-	07150-06806
& GROVIT®	10	-	-	-	-	-	-	-	-	-	-	-	-	-

S/R: Short Reach Mandrel. See page 18-19 for explanation.

07150-07806



1/4" CHOBERT®

10

11

12

+.024

.156

Tables below left and right and over the next four pages list part numbers of all mandrels and mandrel follower springs available per fastener or group of fasteners, i.e. for Chobert[®] and Grovit[®] on these pages.

While fastener sizes are always shown in their specified units, each table has been produced twice to offer dimensions in imperial units on the left-hand page then in metric units on the right-hand page. These 'Mandrel Selection' tables cross-reference with the 'Nose Jaw Selection' tables on pages 14-15 through the 'Ref. N°' column.

It is the diameter of the head at the end of a mandrel which when pulled through controls the expansion of the fastener body.

While there are different head shapes to suit different types of fasteners (see illustration on page 19), progressive head sizes are needed to reflect manufacturing tolerances on the diameter of the hole in your application so that the fastener always expands sufficiently to fill the hole.

Too large a mandrel head would overstress the mandrel and mandrels which fail during use could forcibly exit the tool. Selection tables are arranged into four 'mandrel size' sections, ranging from 'standard' to '3rd oversize', each being colour coded as per the end of the mandrel heads themselves.

	DEE			STANDARD	MANDR	EL - GREEN				1ST OVERSIZE	MAND	REL - YELLOW		000000
FASTENER	REF. N°	HOLE SIZE	HEAD Ø	MANDREL PART N°	P Max.	# S/R MANDREL PART N°	P MAX.	HOLE SIZE	HEAD Ø	MANDREL PART N°	P Max.	# S/R MANDREL PART N°	P Max.	SPRING PART N°
	1	AS REC.	1.84	07150-06003	4.22	07150-08003	1.80	+.04	1.88	07150-06303	4.42	-	-	07150-06803
	1	-	-	-	-	-	-	+.09	1.93	-	-	07150-08103	1.98	07150-06803
3/32" CHOBERT®	2	AS REC.	1.84	07150-06003	4.22	07150-08003	1.80	+.04	1.88	07150-06303	4.42	-	-	07170-06873
& GROVIT®	2	-	-	-	-	-		+.09	1.93	-	-	07150-08103	1.98	07170-06873
	3	AS REC.	1.84	07150-06003	4.22	07150-08003	1.80	+.04	1.88	07150-06303	4.42	-	-	07170-06903
	3	-	-	-	-	-		+.09	1.93	-	-	07150-08103	1.98	07170-06903
	4	AS REC.	1.84	07150-07003	4.22	07150-09003	1.80	+.09	1.93	-	-	07150-09103	1.98	07150-07803
1/8" CHOBERT®	5	AS REC.	2.24	07150-06004	5.49	07150-08004	2.29	+.10	2.34	07150-06104	6.02	07150-08104	2.49	07150-06804
& GROVIT®	6	AS REC.	2.24	07150-07004	5.49	07150-09004	2.29	+.10	2.34	07150-07104	6.02	07150-09104	2.49	07150-07804
	7	AS REC.	2.72	07150-06005	6.20	07150-08005	2.54	+.20	2.92	07150-06105	7.21	07150-08105	2.95	07170-06875
5/32" CHOBERT®	7	-	-	-	-	-	-	-	-	-	-	-	-	-
& GROVIT®	8	AS REC.	2.72	07150-07005	6.20	07150-09005	2.54	+.20	2.92	07150-07105	7.21	07150-09105	2.95	07170-07875
	8	-	-	-	-	-	-	-	-	-	-	-	-	-
	9	AS REC.	3.35	07150-06006	6.27	07150-08006	2.59	+.35	3.71	07150-06106	8.13	07150-08106	3.30	07170-06876
3/16" CHOBERT®	9	-	-	-	-	-	-	-	-	-	-	-	-	-
& GROVIT®	10	AS REC.	3.35	07150-07006	6.27	07150-09006	2.59	+.35	3.71	07150-07106	8.13	07150-09106	3.30	07170-07876
	10	-	-	-	-	-	-	-	-	-	-	-	-	-
	11	AS REC.	4.67	07150-06008	6.81	07150-08008	2.79	+.30	4.98	07150-06108	8.38	07150-08108	3.40	07150-06808
1/4" CHOBERT®	12	AS REC.	4.67	07150-07008	6.81	07150-09008	2.79	+.30	4.98	07150-07108	8.38	07150-09108	3.40	07150-07808
				2ND OVERSI	ZE MAN	DREL - BLUE				3RD OVERS	IZE MAN	DREL - RED		
FASTENER	REF. N°	HOLE SIZE	HEAD Ø	MANDREL PART N°	P MAX.	# S/R MANDREL PART N°	P MAX.	HOLE SIZE	HEAD Ø	MANDREL PART N°	P Max.	# S/R MANDREL PART N°	P Max.	SPRING PART N°
	1	+.09	1.93	07150-06103	4.70	-	-	-	-	-	-	-	-	07150-06803
	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	+.09	1.93	07150-06103	4.70	-	-	-	-	-	-	-	-	07170-06873
3/32" CHOBERT® & GROVIT®	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	+.09	1.93	07150-06103	4.70	-	-	-	-	-	-	-	-	07170-06903
	3	-	-	-	-	-		-	-	-	-	-	-	-
	4	+.09	1.93	07150-07103	4.70	-	-	-	-	-	-	-	-	07150-07803
	5	25												07150-06804
1/8" CHOBERT®	•	+.25	2.49	07150-06204	6.81	07150-08204	2.79	+.35	2.59	07150-06304	7.32	07150-08304	3.00	
& GROVIT®	6	+.25	2.49 2.49	07150-06204 07150-07204	6.81 6.81	07150-08204 07150-09204	2.79 2.79	+.35 +.35	2.59 2.59	07150-06304 07150-07304	7.32 7.32	07150-08304 07150-09304	3.00 3.00	07150-07804
											-			
& GROVIT®	6	+.25	2.49	07150-07204	6.81	07150-09204	2.79				-			07150-07804
	6 7	+.25 +.38	2.49 3.10	07150-07204	6.81 8.13	07150-09204	2.79 3.30	+.35	2.59	07150-07304 -	7.32	07150-09304	3.00	07150-07804 07170-06875
& GROVIT®	6 7 7	+.25 +.38 -	2.49 3.10	07150-07204 07150-06205 -	6.81 8.13	07150-09204 07150-08205 -	2.79 3.30	+.35	2.59	07150-07304 -	7.32	07150-09304	3.00	07150-07804 07170-06875 07150-06805
& GROVIT®	6 7 7 8	+.25 +.38 -	2.49 3.10 - 3.10	07150-07204 07150-06205 -	6.81 8.13 - 8.13	07150-09204 07150-08205 -	2.79 3.30 - 3.30	+.35 - +.63 -	2.59 - 3.35 -	07150-07304 - 07150-06305 -	7.32 - 9.45 -	07150-09304 - 07150-08305 -	3.00 - 3.81 -	07150-07804 07170-06875 07150-06805 07170-07875
& GROVIT® 5/32" CHOBERT® & GROVIT®	6 7 7 8 8	+.25 +.38 -	2.49 3.10 - 3.10 -	07150-07204 07150-06205 -	6.81 8.13 - 8.13 -	07150-09204 07150-08205 -	2.79 3.30 - 3.30 -	+.35 - +.63 -	2.59 - 3.35 - 3.35	07150-07304 - 07150-06305 -	7.32 - 9.45 - 9.45	07150-09304 - 07150-08305 -	3.00 - 3.81 - 3.81	07150-07804 07170-06875 07150-06805 07170-07875
& GROVIT®	6 7 7 8 8 8 9	+.25 +.38 - +.38 - -	2.49 3.10 - 3.10 - - -	07150-07204 07150-06205 - 07150-07205 - -	6.81 8.13 - 8.13 - -	07150-09204 07150-08205 - 07150-09205 - -	2.79 3.30 - 3.30 - - -	+.35 - +.63 -	2.59 - 3.35 - 3.35 - 3.35	07150-07304 - 07150-06305 -	7.32 - 9.45 - 9.45 -	07150-09304 - 07150-08305 -	3.00 - 3.81 - 3.81	07150-07804 07170-06875 07150-06805 07170-07875 07150-07805
& GROVIT® 5/32" CHOBERT® & GROVIT® 3/16" CHOBERT®	6 7 7 8 8 8 9 9	+.25 +.38 - +.38 - - +.60	2.49 3.10 - 3.10 - - 3.96	07150-07204 07150-06205 - 07150-07205 - -	6.81 8.13 - 8.13 - - 9.45	07150-09204 07150-08205 - 07150-09205 - -	2.79 3.30 - 3.30 - - 3.81	+.35 - +.63 -	2.59 - 3.35 - 3.35 - - -	07150-07304 - 07150-06305 -	7.32 - 9.45 - 9.45 - -	07150-09304 - 07150-08305 -	3.00 - 3.81 - 3.81 - - -	07150-07804 07170-06875 07150-06805 07170-07875 07150-07805
& GROVIT® 5/32" CHOBERT® & GROVIT® 3/16" CHOBERT®	6 7 7 8 8 9 9 9 9	+.25 +.38 - +.38 - - +.60 -	2.49 3.10 - 3.10 - 3.96 -	07150-07204 07150-06205 07150-07205 - 07150-07206 07150-06206	6.81 8.13 - 8.13 - 9.45 -	07150-09204 07150-08205 07150-09205 - 07150-08206 -	2.79 3.30 - 3.30 - - 3.81 - -	+.35 - +.63 -	2.59 - 3.35 - 3.35 - - -	07150-07304 - 07150-06305 -	7.32 - 9.45 - 9.45 - - -	07150-09304 - 07150-08305 - 07150-09305 - - - -	3.00 - 3.81 - 3.81 - - - -	07150-07804 07170-06875 07150-06805 07170-07875 07150-07805 07150-06806

Chobert[®] and Grovit[®] - Metric

S/R: Short Reach Mandrel. See page 18-19 for explanation.



To find the correct part number of a mandrel for a particular application, read the instructions below after you have gathered the following information as per example alongside. Answers for the example are shown in *grey italic*.

Fastener Name Fastener Size Datasheet Application Hole Size Clearance Behind Application	example	Chobert [®] ¹ /8" Series 1125 0.1335" Infinite
'REF.N°' FROM NOSE JAW SELECTION TABLE		5 (standard flat)

- Subtract the minimum hole size recommended (AS REC.) in the fastener datasheet from the actual application hole size. -example: 0.005.
- Turn to the page with the 'Mandrel Selection' table for your fastener, selecting either the imperial or the metric dimensions table (pages 16-21). -example: page 16.
- Staring with the 'Standard Mandrel Green' section, find your fastener size in the left-hand column. -example ¹/8" Chobert[®] & Grovit[®].
- If you selected a nose jaw which place you fastener, you should now be able to find a line within your fastener section with the same 'Ref No.' as that from the 'Nose Jaw Selection' table. *example: 5.* This is your line 'Ref. No.' in which you will find both your mandrel and mandrel follower spring part number. This line continues into the second half of the table for the '2nd' and '3rd' oversize mandrels.
- Scan along the line to the 'hole size' columns and select which ever is the nearest or equal to the figure calculated in step one. You may
 now read the mandrel part number next to the 'hole size'. -example: 07150-06104
- For Chobert[®] and Grovit[®] only, most mandrels are also available in a 'short reach' version (see illustration on page 19). Short reach mandrels are used to minimise the possibility of the mandrel head contacting a read obstruction. This would result in the underside of the fastener head not seating properly on the application surface, causing a lack on clench in the joint.
- Whichever size mandrel you settle on, you will also need to check the 'P' figure against that mandrel is adequate. 'P' is the clearance required for the mandrel head at the back of the application <u>IN ADDITION</u> to the length of the fastener protruding through the application, as shown in the illustration on page 19.
- You may now read the corresponding mandrel follower spring part number in the right-hand column of the table. -example: 07150-06804.

In all cases, satisfactory clenching of the joint should be assessed particularly if the size of the hole in your application is very close to the next oversize hole condition, when it will be safe to select the greater size of mandrel to obtain a higher clench. REMEMBER that this will increase the broach load and reduce the mandrel life.

Briv[®] - Imperial

For mandrel or mandrel follower spring selection, follow instructions above.

	REF.	HOLE		STANDARD MANDREL - GREEN		HOLE		1ST OVERSIZE MANDREL - YELLOW	1	SPRING
FASTENER	N°	SIZE	HEAD Ø	D MANDREL P PART N° MAX.		SIZE	HEAD Ø	MANDREL PART N°	P MAX.	PART Nº
3/32" BRIV®	13	AS REC.	.072	07150-06013	.119	+.004	.076	07150-06113	.123	07170-06873
Brass only	14	AS REC.	.072	07150-06013	.119	+.004	.076	07150-06113	.123	07170-06903
1/8" BRIV®	15	AS REC.	.092	07271-06414	.120	+.005	.097	07271-06514	.126	07150-06814
Al. Alloy, Brass, Steel	16	AS REC.	.092	07271-07414	.120	+.005	.097	07271-07514	.126	07150-07814
5/32" BRIV®	17	AS REC.	.110	07150-06015	.136	+.005	.115	07150-06115	.142	07170-06875
Ál. Alloy, Brass, Steel	18	AS REC.	.110	07150-07015	.136	+.005	.115	07150-07115	.142	07170-07875
5/32" BRIV®	19	AS REC.	.120	07170-06805	.126	+.005	.125	07170-06825	.132	07170-06875
St.Steel only	20	AS REC.	.120	07170-07805	.126	+.005	.125	07170-07825	.132	07170-07875
3/16" BRIV® Al. Alloy,	21	AS REC.	.141	07150-06016	.157	+.005	.146	07150-06116	.164	07170-06876
Brass, Steel	22	AS REC.	.141	07150-07016	.157	+.005	.146	07150-07116	.164	07170-07876
3/16" BRIV®	23	AS REC.	.153	07170-06806	.150	+.005	.158	07170-06826	.156	07170-06876
St.Steel only	24	AS REC.	.153	07170-07806	.150	+.005	.158	07170-07826	.156	07170-07876
6mm BRIV®	25	AS REC	.179	07150-06018	.165	+.005	.184	07150-06118	.171	07150-06808
Al. Alloy, Steel	26	AS REC	.179	07150-07018	.165	+.005	.184	07150-07118	.171	07150-07808

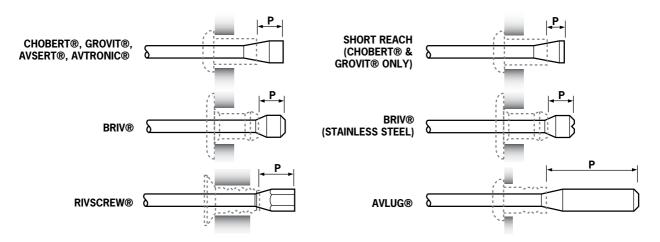
	REF.	HOLE		2ND OVERSIZE MANDREL - BLUE		HOLE		3RD OVERSIZE MANDREL - RED		SPRING
FASTENER	N°	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	PART N°
3/32" BRIV®	13	+.008	.079	07150-06213	.126	-	-	-	-	07170-06873
Brass only	14	+.008	.079	07150-06213	.126	-	-	-	-	07170-06903
1/8" BRIV®	15	+.010	.102	07271-06614	.133	-	-	-	-	07150-06814
Al. Alloy, Brass, Steel	16	+.010	.102	07271-07614	.133	-	-	-	-	07150-07814
5/32" BRIV®	17	+.010	.120	07150-06215	.149	-	-	-	-	07170-06875
Al. Alloy, Brass, Steel	18	+.010	.120	07150-07215	.149	-	-	-	-	07170-07875
5/32" BRIV®	19	-	-	-	-	-	-	-	-	-
St.Steel only	20	-	-	-	-	-	-	-	-	-
3/16" BRIV® Al. Alloy,	21	+.010	.151	07150-06216	.170	+.012	.153	07150-06316	.173	07170-06876
Brass, Steel	22	+.010	.151	07150-07216	.170	+.012	.153	07150-07316	.173	07170-07876
3/16" BRIV®	23	-	-	-	-	-	-	-	-	-
St.Steel only	24	-	-		-	-	-	-	-	-
6mm BRIV® Al. Alloy, Steel	25	+.010	.189	07150-06218	.177	-	-	-		07150-06808
AI. Alloy, Steel	26	+.010	.189	07150-07218	.177	-	-	-	-	01750-07808



Mandrel Head Types and 'P' Length

Mandrels for stainless steel Briv® are easily identifiable by a 'V' cut in the end of the mandrel heads.

When using curved nose jaws, mandrels have to be bent by hand to match the curvature of the nose jaw, thus ensuring good feed of fasteners.



Briv[®] - Metric

	REF.	HOLE		STANDARD MANDREL - GREEN		HOLE		1ST OVERSIZE MANDREL - YELLOW	/	SPRING
FASTENER	N°	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	PART N°
3/32" BRIV®	13	AS REC.	1.83	07150-06013	3.02	+.10	1.93	07150-06113	3.12	07170-06873
Brass only	14	AS REC.	1.83	07150-06013	3.02	+.10	1.93	07150-06113	3.12	07170-06903
1/8" BRIV®	15	AS REC.	2.34	07271-06414	3.05	+.13	2.46	07271-06514	3.20	07150-06814
Al. Alloy, Brass, Steel	16	AS REC.	2.34	07271-07414	3.05	+.13	2.46	07271-07514	3.20	07150-07814
5/32" BRIV®	17	AS REC.	2.79	07150-06015	3.45	+.13	2.92	07150-06115	3.61	07170-06875
Al. Alloy, Brass, Steel	18	AS REC.	2.79	07150-07015	3.45	+.13	2.92	07150-07115	3.61	07170-07875
5/32" BRIV®	19	AS REC.	3.05	07170-06805	3.20	+.13	3.18	07170-06825	3.35	07170-06875
St.Steel only	20	AS REC.	3.05	07170-07805	3.20	+.13	3.18	07170-07825	3.35	07170-07875
3/16" BRIV®	21	AS REC.	3.58	07150-06016	3.99	+.13	3.71	07150-06116	4.17	07170-06876
Al. Alloy, Brass, Steel	22	AS REC.	3.58	07150-07016	3.99	+.13	3.71	07150-07116	4.17	07170-07876
3/16" BRIV®	23	AS REC.	3.89	07170-06806	3.81	+.13	4.01	07170-06826	3.96	07170-06876
St.Steel only	24	AS REC.	3.89	07170-07806	3.81	+.13	4.01	07170-07826	3.96	07170-07876
6mm BRIV®	25	AS REC	4.54	07150-06018	4.18	+.13	4.67	07150-06118	4.34	07150-06808
Al. Alloy, Steel	26	AS REC	4.54	07150-07018	4.18	+.13	4.67	07150-07118	4.34	07150-07808

	REF.	HOLE		2ND OVERSIZE MANDREL - BLUE		HOLE		3RD OVERSIZE MANDREL - RED		SPRING
FASTENER	N°	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	PART N°
3/32" BRIV®	13	+.20	2.01	07150-06213	3.20	-	-	-	-	07170-06873
Brass only	14	+.20	2.01	07150-06213	3.20	-	-	-	-	07170-06903
1/8" BRIV®	15	+.25	2.59	07271-06614	3.38	-	-	-	-	07150-06814
Al. Alloy, Brass, Steel	16	+.25	2.59	07271-07614	3.38	-	-		-	07150-07814
5/32" BRIV® AI. Alloy,	17	+.25	3.05	07150-06215	3.78	-	-	-	-	07170-06875
Brass, Steel	18	+.25	3.05	07150-07215	3.78	-	-	-	-	07170-07875
5/32" BRIV®	19	-	-	•	-	-	-	-	-	-
St.Steel only	20	-	-		-	-	-	-	-	-
3/16" BRIV® Al. Alloy,	21	+.25	3.84	07150-06216	4.32	+.30	3.85	07150-06316	4.39	07170-06876
Brass, Steel	22	+.25	3.84	07150-07216	4.32	+.30	3.85	07150-07316	4.39	07170-07876
3/16" BRIV®	23	-	-		-	-	-	-	-	-
St.Steel only	24	-	-		-	-	-	•	-	-
6mm BRIV®	25	+.25	4.79	07150-06218	4.49	-	-	-	-	07150-06808
Al. Alloy, Steel	26	+.25	4.79	07150-07218	4.49	-	-	-	-	07150-07808

Avlug[®], Avsert[®], Avtronic[®] & Rivscrew[®] - Imperial;

For mandrel or mandrel follower spring selection, follow instructions on page 18.

	REF.	HOLE		STANDARD MANDREL - GREEN		HOLE	i i i i i i i i i i i i i i i i i i i	IST OVERSIZE MANDREL - YELLOW	1	SPRING
FASTENER	N°	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	PART Nº
2 /22" AVILUOS	27	AS REC.	.076	07150-06603	.353	+.005	.081	07150-06703	.478	07150-06803
3/32" AVLUG®	28	AS REC.	.076	07150-07603	.353	+.003	.079	07150-07703	.368	07150-07803
1 /0" 1/100	29	AS REC.	.098	07150-06604	.593	-	-	-	-	07150-06804
1/8" AVLUG®	30	AS REC.	.098	07150-07604	.593	-	-	-	-	07150-07804
2.5mm, 4-40 UNC AVSERT®	31	AS REC.	.0725	07150-06003	.145	-		-	-	07150-06803
3.0mm, 6-32 UNC AVSERT®	32	AS REC.	.088	07150-06004	.185	-	-	-	-	07150-06804
2.5mm AVTRONIC®	33	AS REC.	.070	07170-06025	.140	+.003	.073	07170-06125	.140	07150-06803
2.5mm AVIRUNIC®	34	AS REC.	.070	07170-07025	.140	+.003	.073	07170-07125	.140	07150-07803
	35	AS REC.	.079	07170-06028	.150	+.003	.082	07170-06128	.150	07170-06528
2.8mm AVTRONIC®	36	AS REC.	.079	07170-06028	.150	+.003	.082	07170-06128	.150	07170-06873
	37	AS REC.	.079	07170-07028	.150	+.003	.082	07170-07128	.150	07170-07528
2.8mm RIVSCREW®	38	AS REC.	* .065	07271-06030	.127	-	-		-	07271-06630
3.0mm RIVSCREW®	39	AS REC.	* .065	07271-06030	.127	-	-	-	-	07271-06630
3.5mm RIVSCREW®	40	AS REC.	* .0825	07271-06035	.132	-	-		-	07271-06635
4.0mm RIVSCREW®	41	AS REC.	* .103	07271-06140	.150	-	-	-	-	07271-06640

* These Dimensions are Across Flats

	REF.	HOLE		2ND OVERSIZE MANDREL - BLUE		HOLE		3RD OVERSIZE MANDREL - RED		SPRING
FASTENER	N°	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	PART N°
2/22" 11/100	27	-	-	•	· ·	-	-	-	-	•
3/32" AVLUG®	28	-	-		-	-	-	-	-	-
1/8" AVLUG®	29	-	-		-	-	-	•	-	-
,	30	-	-		-	-	-	-	-	
2.5mm, 4-40 UNC AVSERT®	31	-	-		-	-	-	•	-	-
3.0mm, 6-32 UNC AVSERT®	32	-	-		-	-	-	-	-	-
2.5mm AVTRONIC®	33	+.006	.076	07170-06225	.140	-	-	-	-	07150-06803
2.5IIIII AVIRUNIC®	34	+.006	.076	07170-07225	.140	-	-	-	-	07150-07803
	35	+.006	.085	07170-06228	.150	-	-	-	-	07170-06528
2.8mm AVTRONIC®	36	+.006	.085	07170-06228	.150	-	-	-	-	07170-06873
	37	+.006	.085	07170-07228	.150		-	-	-	07170-07528
2.8mm RIVSCREW®	38	-	-		-	-	-	-	-	
3.0mm RIVSCREW®	39	-	-		-		-	-	-	-
3.5mm RIVSCREW®	40	-	-		-	-	-	•	-	-
4.0mm RIVSCREW®	41	-	-		-		-	-	-	-



Avlug^{®,} Avsert[®], Avtronic[®] & Rivscrew[®] - Metric

AVLUG®, AVSERT®, AVTRONIC® & RIVSCREW® - METRIC

	LINE	HOLE		STANDARD MANDREL - GREEN		HOLE	i i	IST OVERSIZE MANDREL - YELLOW	1	SPRING
FASTENER	N°	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	PART Nº
2/22" 11/100	27	AS REC.	1.93	07150-06603	8.97	+.10	2.06	07150-06703	12.14	07150-06803
3/32" AVLUG®	28	AS REC.	1.93	07150-07603	8.97	+.10	2.01	07150-07703	9.35	07150-07803
1 /01 41/1100	29	AS REC.	2.49	07150-06604	15.06	-	-	-	-	07150-06804
1/8" AVLUG®	30	AS REC.	2.49	07150-07604	15.06	-	-	-	-	07150-07804
2.5mm, 4-40 UNC AVSERT®	31	AS REC.	1.84	07150-06003	3.68	-	-	-	-	07150-06803
3.0mm, 6-32 UNC AVSERT®	32	AS REC.	2.24	07150-06004	4.70	-	-	-	-	07150-06804
2.5mm AVTRONIC®	33	AS REC.	1.78	07170-06025	3.56	+.07	1.85	07170-06125	3.56	07150-06803
2.5mm AV IRONIC®	34	AS REC.	1.78	07170-07025	3.56	+.07	1.85	07170-07125	3.56	07150-07803
	35	AS REC.	2.01	07170-06028	3.81	+.07	2.08	07170-06128	3.81	07170-06528
2.8mm AVTRONIC®	36	AS REC.	2.01	07170-06028	3.81	+.07	2.08	07170-06128	3.81	07170-06873
	37	AS REC.	2.01	07170-07028	3.81	+.07	2.08	07170-07128	3.81	07170-07528
2.8mm RIVSCREW®	38	AS REC	* 1.65	07271-06030	3.23	-	-	-	-	07271-06630
3.0mm RIVSCREW®	39	AS REC.	* 1.65	07271-06030	3.23	-	-	-	-	07271-06630
3.5mm RIVSCREW®	40	AS REC.	* 2.10	07271-06035	3.35	-	-	-	-	07271-06635
4.0mm RIVSCREW®	41	AS REC.	* 2.62	07271-06140	3.81	-	-	-	-	07271-06640

* These Dimensions are Across Flats

	LINE	HOLE		2ND OVERSIZE MANDREL - BLUE		HOLE		3RD OVERSIZE MANDREL - RED		SPRING
FASTENER	N°	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	SIZE	HEAD Ø	MANDREL PART N°	P MAX.	PART N°
2/22" AVI UCO	27	-	-	-	-	-	-	-	-	-
3/32" AVLUG®	28	-	-	-	-	-	-	-	-	-
1 /0" AVILUCO	29	-	-	-	-	-	-	-	-	-
1/8" AVLUG®	30	-	-	-	-	-	-	-	-	-
2.5mm, 4-40 UNC AVSERT®	31	-	-	-	-	-	-	-	-	-
3.0mm, 6-32 UNC AVSERT®	32	-	-	-	-	-	-	-	-	-
2.5mm AVTRONIC®	33	+.15	1.93	07170-06225	3.56	-	-	-	-	07150-06803
2.5mm AV IRONIC®	34	+.15	1.93	07170-07225	3.56	-	-	-	-	07150-07803
	35	+.15	2.16	07170-06228	3.81	-	-	-	-	07170-06528
2.8mm AVTRONIC®	36	+.15	2.16	07170-06228	3.81	-	-	-	-	07170-06873
	37	+.15	2.16	07170-07228	3.81	-	-	-	-	07170-07528
2.8mm RIVSCREW®	38	-	-	-	-	-	-	-	-	-
3.0mm RIVSCREW®	39	-	-	-	-	-	-	-	-	-
3.5mm RIVSCREW®	40	-	-	-	-	-	-	-	-	
4.0mm RIVSCREW®	41	-	-	-	-	-		-		-

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.

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 25).
- 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 23.

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).

		SER	VICE KIT		
ITEM PART N°	DESCRIPTION	N° OFF	ITEM PART N°	DESCRIPTION	N° OFF
07900-00157	CIRCLIP PLIERS	1	07900-00352	SEAL REMOVAL HOOK	1
07900-00006	SPATULA	1	07900-00710	BARREL PLUG REMOVAL SPANNER	1
07900-00446	EXTRACTOR	1	07900-00725	BULLET	1
07900-00603	BARREL VICE JAWS	1	07900-00243	SCREWDRIVER	1
07900-00520	³ /8" ROD	1	07900-00717	INTENSIFIER SPANNER	1
07900-00521	¹ /4" ROD	1	07900-00013	¹ /8" ALLEN KEY	1
07900-00602	'O' RING ASSEMBLY BULLET	1	07900-00617	LOCTITE MULTI-GASKET 574 50ml PACK	1
07900-00595	18mm SPANNER	1	07900-00469	2.5mm ALLEN KEY	1
07900-00434	32mm SPANNER	1	07900-00351	3mm ALLEN KEY	1
07900-00237	³ /8" x ⁵ /16" B.S.W. SPANNER	1	07900-00224	4mm ALLEN KEY	1
07900-00012	⁹ /16" x ⁵ /8" SPANNER	1	07900-00225	5mm ALLEN KEY	1
07900-00008	⁷ /16" x ¹ /2" SPANNER	1	07992-00020	80g TIN MOLY LITHIUM GREASE EP 3753	1

Note: Spanner sizes are measured 'across flats' unless otherwise specified.



Maintenance

Every 500,000 cycles the tool should be completely dismantled and new components should be used where worn, damaged or when recommended. All '0' rings and seals should be renewed and lubricated with Moly Lithium grease EP 3753 before assembling.

I M P O R T A N T 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 and the trigger air line from the intensifier valve, thus separating the pistol unit from the intensifier unit.

Dismantling 07535-02500 Mk II

PANTOGRAPH ARM DISMANTLING

- Disconnect Air Supply.
- Remove the quick coupling from the rear of the tool by sliding the knurled collar rearwards.
- Remove the 4 mm black tubes that run from the placing tool to the roller lever valve and non return valve. This is achieved by
 depressing the fitting's collar and pulling out the tubes.
- Using a 28 mm A/F spanner loosen and remove the Locknut 21, (see pages 26-27) from the rear of the placing tool.
- Pull the placing tool assembly forwards out of the tool mounting plate. The roller lever valve may need to be operated by hand to
 provide clearance for removal.
- On assembly lubricate the hole in the tool mounting plate with a light smear of Moly lithium grease (7992-0020).

TOOL LOCATING BLOCK ASSEMBLY

- Loosen and remove the 2 off Screws 109 on the Placing Tool Locating Block (106) using a 4 mm A/F Hex Wrench.
- Retain the Spring 110 positioned behind the Tool Location Locking Pin 107.
- Unscrew the Tool Location Release Screw 108.
- Clean and replace parts as required.

HORIZONTAL ARM DETAIL

- Using a 3 mm A/F Hex Wrench, unscrew the 2 off Screws 81 and remove the Tool Stop 76.
- Depress the outer Collet on the Roller Lever Valve 98 and remove the Black Nylon Tubing 115.
- Using a 2.5 mm A/F Hex Wrench, unscrew and remove the 2 off Screws 78. Retain the Roller Lever Valve 98.
- Unscrew the 2 off Screws 79 using a 6 mm A/F Hex Wrench. Retain the Tool Mounting Plate 65.
- Using a 1" A/F Spanner on the Pivot Block Lower 63, unscrew the Shoulder Screw 86 using an 8 mm A/F Hex Wrench. Lay the parts on a bench.
- Using two 10 mm A/F Hex Spanners on each side of the Acorn Nuts 88, unscrew an Acorn Nut from each of 6 off Pivot Pins 69.
- The 2 off Upper Front Arms **62**, 2 off Lower Front Arms **61** and Double Acting Cylinder **96** can now be dismantled. Clean the Pivot Pins **69**. Replace if necessary.
- Inspect the 4 off Glassier Bearings 104. Replace if necessary.
- Using a 6 mm A/F Hex Wrench remove the 2 off Screws 80. Remove the Transport Plate 103.
- Lift the Solid Arm Assembly 75 off the Solid Arm Pivot Pin 71. Inspect the 4 off Flanged Oilite Bushes 105. Replace if necessary.
- Slide off the Solid Arm Support Washer 74.
- The Solid Arm Pivot Pin 71 is a press fit in the Rear Support Column 68. It should only be removed if absolutely necessary.
- Cut the 2 off Cable Ties **101** and remove the Mandrel Chute **73**.
- Using a 4 mm A/F Hex Wrench unscrew the 3 off Screws **85** and remove the 3 off Cable Cradles **102**.
- Depress the outer Collets on the Elbow Connector 91 and T-Connector 99 and remove the Black Nylon Tube 115.
- Using a 3 mm A/F Hex Wrench remove the 2 off Screws 82 and remove the Regulator 92 and Valve Mounting Bracket 93.
- Using a 6 mm A/F Hex Wrench remove the 2 off Screws 79. Remove the Rear Support Column 68.
- Using a 2.5 mm A/F Hex Wrench remove the Screw 84 and Follower Spring Box 72.

REASSEMBLY

• Clean all parts and replace as necessary. Assembly is the reverse of the dismantling procedure.

* Refers to items included in the 0753 Mkll service kit. For complete list see page 23.

Item numbers in **bold** refer to the general assembly and parts list for the 07535-02600 Pantograph Arm on pages 28-29.



Maintenance

Dismantling 07535-02500 MkII

TAIL JAW CYLINDER

- Manually flip the Clip 46 up and remove the End Cap 38.
- Using an Allen Key*, remove one Screw 43 and Washer 44 ensuring that any trapped air in the tail jaw cylinder is exhausted. Remove the second Screw 43 and Washer 44.
- Pull out Rear Plug 45.
- Extract air tail jaw components, comprising Tail Jaw Piston Assembly 14, Spring 13, Jaws 9 and Jaw Housing 8.
- Remove plug at rear of piston assembly using an Allen Key* and a bar through the large slot in the turret.
- Clean out turret using a 4.7mm (³/₁₆") drill and replace plug using a non-hardening sealing compound, e.g. Loctite Multi-gasket 574*.
- Remove piston seal 'O' Ring 10.
- Using an Allen Key*, remove all five handle moulding securing Screws 34, 39 and Nuts 33 from the tool handle.
- Grip Barrel 25 in a vice using soft jaws to avoid damage.
- Using a box spanner*, unscrew Barrel Plug 7, preventing Barrel 25 turning by using an open ended spanner*.
- Disconnect Air Tail Jaw Concertina Tube 12 from Switch Block 28 and pull Tail Jaw Cylinder 6 from tool.
- Remove 'O' Ring 4, Rubbing Strip 15 and Barrel Return Spring 16.
- Free length of Spring 13 should be 38.1mm (1.5"). Replace if necessary.
- Coat the tail jaws with Moly Lithium grease before assembling.
- Assemble in reverse order of dismantling.

HYDRAULIC PISTON

- Remove Tail Jaw Cylinder 6 as described earlier.
- Grip Body 19 in vice using soft jaws to avoid damage, undo Stroke Limiter 17.
- Grip Barrel 25 in soft jaw vice, pull Body 19 from Barrel 25 (a small quantity of hydraulic oil will be ejected from inside body).
- Remove Piston **18** carefully so as not to damage body bore.
- Remove Seal 3.
- Seal **1** is difficult to remove without damaging, but can remain in place during cleaning (provided it is not affected by cleaning process). If however, Seal **1** requires renewing proceed as follows:
- Using spatula*, prise out Seal 1 from Body 19, taking care not to damage body cavity and bores. The removed Seal 1 MUST be discarded.
- To replace Seal 1, unscrew Hydraulic Connector 49 to bring inside face level with internal bore.
- Unscrew existing bleed plug until inside face is level with internal bore. This will provide a smooth passage for insertion of new Seal **1** through rear of body.
- Ensure the seal 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.

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 valve, proceed as follows:
- Disconnect air hose from assembly, taking care not to damage them. Remove assembly.
- Using an Allen Key*, loosen Screw 27 clamping assembly to Barrel 25 and remove assembly.
- Using a screwdriver*, carefully remove the Chrome Star-lock Washer 26 from Air Tail Jaw Spool 29 and discard washer.
- Extract Air Tail Jaw Spool 29 from Switch Block 28.
- Taking care not to damage the Air Tail Jaw Spool 29, remove the 'O' Rings 31.
- Clean spool and refit new 'O' Rings 31 using assembly bullet* and insert into Switch Block 28, noting its orientation.
- Fit New Chrome Star-lock Washer 26 by clamping in vice using soft jaws 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 Mechanical Cursor Assembly **5** occasionally with a little light oil.

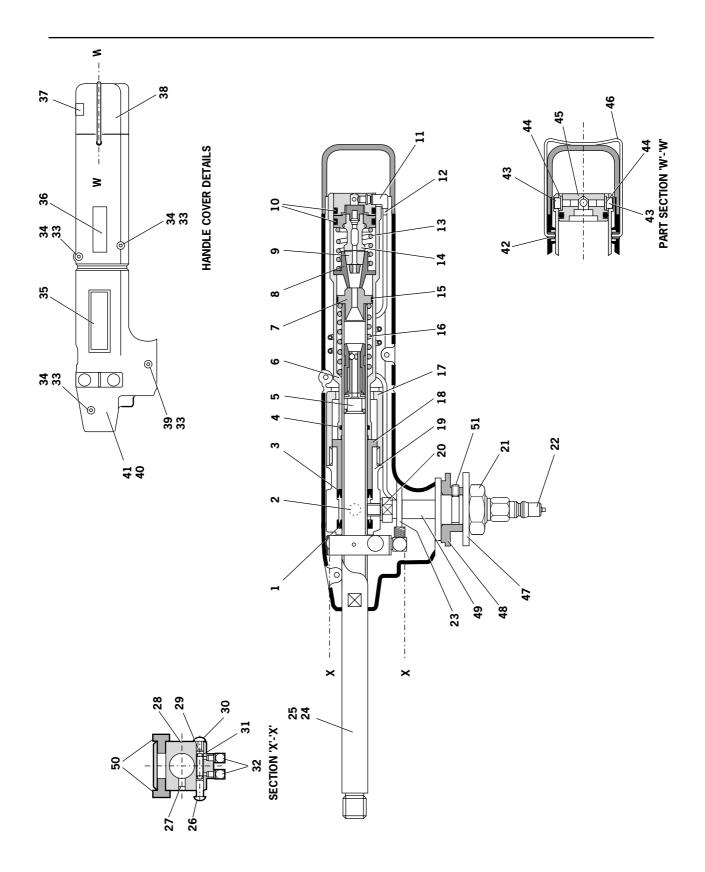
IMPORTANT

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 Mkll service kit. For complete list see page 23. Item numbers in **bold** refer to the general assemblies and parts lists on pages 26-27.



General Assembly of Base Tool 07535-02500 Mkll

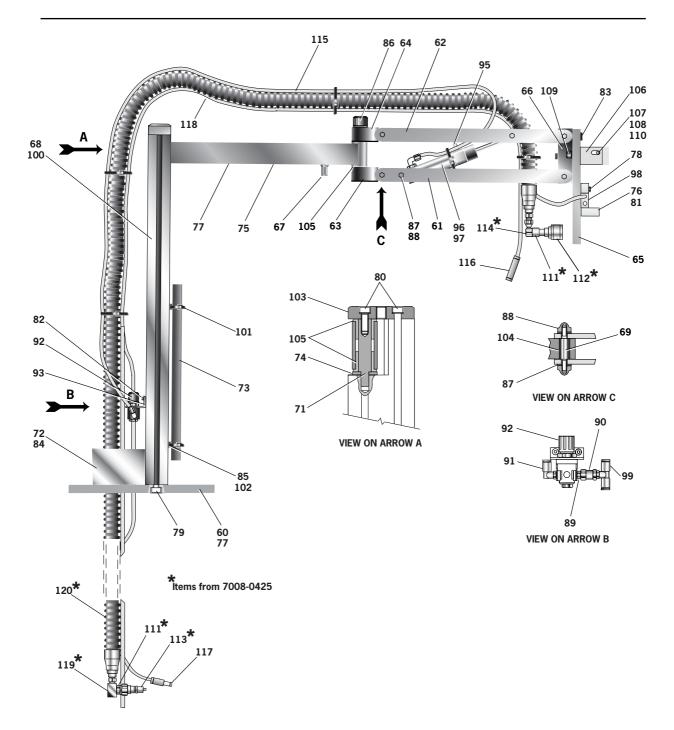


26 An Acument[®] Global Technologies Company

	QTY SPARES	-	1.	2 3	2 -	4 -	س	2 -	1 .	1	1 .	2 -	1 .	1 .	2 -	2 2	2 -	1	1 .	1 -	1 -	1 -	2 -	2 -	1 1	1 1	1 .	
	0						+					+																
	DESCRIPTION	AIR TAIL JAW SPOOL	1/8" STARLOCK WASHER BLACK	'O' RING	ELBOW CONNECTOR	M4 HEX NUT	M4 X 10 LONG SOCKET HEAD CAP SCREW	LABEL	CE MARK LABEL	BOOK SYMBOL LABEL	END CAP	M4 X 22 LONG SOCKET HEAD CAP SCREW	MODIFIED HANDLE MOULDING (RIGHT)	MODIFIED HANDLE MOULDING (LEFT)	BRIV RIVET	M4 X 6 LONG SOCKET HEAD CAP SCREW	M4 WASHER PLASTIC	REAR PLUG	CLIP	WASHER	CAM	HYDRAULIC CONNECTEOR	BLANKING PLUG	M4 X 5 LONG SOCKET SET SCREW	BONDED SEAL	BONDED SEAL	SCREW	
07535-02500 (S) PARTS LIST	PART N°	07530-02302	07004-00059	07003-00121	07005-01571	07002-00134	07001-00401	07530-02210	07007-01504	07007-01503	07530-02603	07001-00262	07535-02502	07535-02503	01810-02136	07001-00504	07002-00153	07530-02213	07530-02220	07535-00203	07535-00201	07535-02501	07530-00310	07001-00514	07003-00142	07003-00194	07001-00442	07530-00501
(S) PA	ITEM	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
2500	SPARES			1	1					2	2					1					2							
535-0	<u></u> ΩΩ		1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	2	2	1	200mm	1	1	1	
01	DESCRIPTION	SEAL (STATIC)	BLEED PLUG ASSEMBLY (ITEMS 52 to 55)	SEAL (DYNAMIC)	'O' RING	MECHANICAL CURSOR ASSEMBLY	TAIL JAW CYLINDER	BARREL PLUG	JAW HOUSING	JAWS	'O' RING	L TYPE THREADED NIPPLE	AIR TAIL JAW CONCERTINA TUBE	SPRING	TAIL JAW PISTON ASSEMBLY	RUBBING STRIP	BARREL RETURN SPRING	STROKE LIMITER	PISTON	BODY	1/8" BSP BONDED SEAL	M20 LOCKNUT	1/8" BSP QUICK RELEASE COUPLING	4mm 0/D BLUE PLASTIC TUBE	DUST CAP	BARREL	1/8" STARLOCK WASHER CHROME	M5 X 6 LONG SOCKET HEAD SET SCREW
	PART N°	07003-00237	07530-00500	07003-00236	07003-00167	07271-01100	07530-02207	07530-02205	07530-00208	07151-00403	07003-00113	07005-01972	07530-02211	07154-00404	07530-02800	07530-00206	07490-03002	07530-00204	07530-00203	07530-02202	07003-00142	07002-00151	07005-00760	07005-01981	07007-00017	07530-02201	07004-00058	07001-00404
	ТЕМ	1	2	ŝ	4	2	9	7	∞	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

Parts List for Base Tool 07535-02500 MkII

General Assembly of Pantograph Arm Comprising 07535-02600 (s)/07008-00425 (s)





		-					A/R -	10 -	5		· ∞	4 -	1	1 .	1 .	2 -	1 .	2	1	1	1	4.9 m	1		3.1 m	1	1								
	ELBOW CONNECTOR (1/8)	SILENCER	DOUBLE ACTING CYLINDER	PISTON ROD CLEVIS	ROLLER LEVER VALVE	T-CONNECTOR	COVER PROFILE	CABLE TIE	CABLE CRADLE	TRANSPORT PLATE	GLACIER BEARING	FLANGED OILITE BUSH	PLACING TOOL LOCATING BLOCK	TOOL LOCATION LOCKING PIN	TOOL LOCATION RELEASE SCREW	M5 X 20 LONG CAP HEAD SCREW	COMPRESSION SPRING	G1/8 BONDED SEAL	QUICK CONNECTOR (FEMALE)	QUICK CONNECTOR (MALE)	SWIVEL ELBOW 1/8 MALE-FEMALE	4 mm BLACK PLASTIC TUBE	NON RETURN VALVE	PUSH-IN CONNECTOR WITH REDUCING SLEEVE	4 mm BLUE PLASTIC TUBE	ELBOW 1/8 MALE-FEMALE	RE-INFORCED HYDRAULIC HOSE								
PART N°	07005-01420	07005-01422	07005-01982	07005-01669	07005-01728	07005-01729	07007-01311	07007-01424	07007-01696	07007-01697	07007-01699	07007-01703	07535-02101	07535-02102	07535-02103	07001-02220	07007-01710	07003-00142	07005-00759	07005-00760	07005-01038	07005-01352	07005-01973	07005-01977	07005-01981	07005-01989	07008-00426								
ITEM	94	95	96	97	98	66	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120								
SPARES			,		,		,		,	,	,		,		,			N/1	,		,		,						,		,				
QTY	1	2	2	1	1	1	-	1	1	9	4	1	1	1	1	1	1	1	2	2	2	1	2	2	1	5	1	12	12	1	1	1	1		
DESCRIPTION	BASE PLATE	LOWER FRONT ARM	UPPER FRONT ARM	PIVOT BLOCK LOWER	PIVOT BLOCK UPPER	TOOL MOUNTING PLATE	FRONT MOUNTING BLOCK	ARM ROTATION STOP	REAR SUPPORT COLUMN	PIVOT PIN	CYLINDER PIVOT SPACER	SOLID ARM PIVOT PIN	FOLLOWER SPRING BOX	MANDREL CHUTE	SOLID ARM SUPPORT WASHER	SOLID ARM ASSEMBLY	TOOL STOP	MACHINE LABEL	M3 X 25 LONG SOCKET CAP HEAD SCREW	M8 X 30 LONG SOCKET CAP HEAD SCREW	M8 X 25 LONG SOCKET CAP HEAD SCREW	M5 X 16 LONG SOCKET BUTTON HD SCREW	M4 X 8 LONG SOCKET CAP HEAD SCREW	M8 X 30 LONG SOCKET BUTTON HD SCREW	M4 X 12 LONG SOCKET BUTTON HD SCREW	M6 X 20 LONG SOCKET BUTTON HD SCREW	M16 SHOULDER SCREW	M6 STANDARD WASHER	M6 ACORN NUT	M5 MALE - MALE STRAIGHT CONNECTOR	NON-RETURN VALVE	ELBOW CONNECTOR (M5)	REGULATOR	VALVE MOUNTING BRACKET	
PART N°	07535-02601	07535-02002	07535-02602	07535-02603	07535-02604	07535-02605	07535-02606	07535-02008	07535-02607	07535-02608	07535-02609	07535-02012	07535-02013	07535-02014	07535-02015	07535-02200	07535-02610	07535-02611	07001-00083	07001-00250	07001-00285	07001-00384	07001-00505	07001-00638	07001-00572	07001-00438	07001-00609	07002-00045	07002-00146	07005-00462	07005-00468	07005-00913	07005-01373	07005-01375	
ITEM	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	06	91	92	93	

Parts List for Pantograph Arm Comprising 07535-02600 (s)/07008-00425 (s)

Intensifier 07531-02200 - Maintenance

Dismantling Instructions

- When dismantling the Intensifier Assembly, first disconnect the air supply hose to intensifier inlet Connector 152.
- Using an Allen Key* undo four Screws 157 and remove Protection Plate 154.
- Disconnect the trigger hose (item 177 on page 31) from Intensifier Valve 173 or 178 by depressing the outer collet and withdrawing the hose.
- Remove Cover Plate 134 and Gasket 165 by removing Screws 167 and Washers 166 using Allen Key*.
- Ensure gasket is not damaged to ensure a proper seal on reassembly.
- Invert intensifier assembly and drain oil from reservoir into a suitable container.
- Remove Quick Release Connector 162 together with Connector 161 and Seals 163 with a suitable spanner*.
- Remove Intensifier Valve 173 or 178 by removing the fixing screws with a suitable spanner taking care to retain 'O' Ring 151 located in the Intensifier Body Casting.
- Remove Screw 149 using a suitable Allen key* and remove Silencer Cover 146, Foam Silencer 145, Spacer 148 and Retaining Plate 150.
- Pull off the 6mm Plastic Tube 182 from Vacuum Connectors 172.
- From the base of the intensifier insert a 3mm Allen Key * through the two holes and unscrew the Vacuum Connectors 172. 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 172, the following procedure must be followed: -
 - Soak the vacuum connectors in a suitable primer, i.e. Perma Bond A905
 - Place a drop of Loctite 574 in the intensifier threaded hole.
 - 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.
 - Rotate the Allen Key while applying Loctite 574 to the base of the vacuum connector.
 - Screw the Vacuum Connector into the intensifier, ensuring that there is sufficient Loctite 574 at the base of the fitting such that the thread is not visible.
- Using a screwdriver, carefully remove internal Retaining Ring **144**. Clean and inspect groove for signs of damage.
- Using Extractor*, insert male threaded end into End Cover 142 and withdraw it, along with intensifier Sleeve 158 and 'O' Rings 140 and 143.
- Insert Rod* through the connector orifice at the front of the intensifier body and tap out Piston Rod 139 and Piston Assembly.
- Using a suitable Allen Key*, unscrew two Screws 155 and remove End Cover 142 from intensifier Sleeve 158.
- Remove Seal Plug 137 with a spanner*.
- Insert rod* through connector orifice at the front of the intensifier body and push out Seal Housing 135 and associated '0' rings and lip seals.
- Remove Valve Housing Assembly 164 from the main body with a suitable spanner*. Clean by blowing through with a low pressure air jet.
- Remove Piston Rod **139** from intensifier Air Piston **141** by gripping the first 20mm (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 147 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 164 must be refitted using a thread sealing adhesive.
- Assemble the Piston Assembly using a new Nut 147.
- End Cover 142 must be fitted correctly inside internal Retaining Ring 144. The tool must not be operated if the end cover has been omitted.

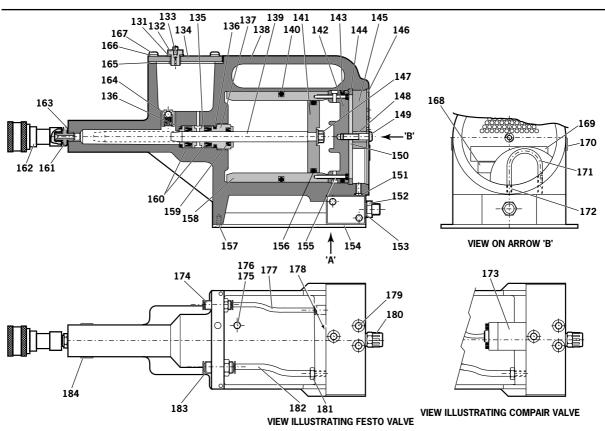
IMPORTANT

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

* Refers to items included in the 07535 MkII service kit. For complete list see page 23. Item numbers in **bold** refer to the illustration and parts list opposite.



Intensifier 07531-02200



VIEW ON ARROW 'A'

		07	531	-0220	0 PA	RTS LIST			
ITEM	PART N°	DESCRIPTION	QTY	SPARES	ITEM	PART N°	DESCRIPTION	QTY	SPARES
131	07003-00037	SEAL	1	1	158	07531-00201	SLEEVE	1	-
132	07240-00211	FILLER SCREW	1	-	159	07003-00337	LIP SEAL	1	1
133	07001-00418	BLEED SCREW	1	1	160	07003-00336	LIP SEAL	2	2
134	07240-00210	COVER PLATE	1	-	161	07005-00406	CONNECTOR	1	-
135	71420-02006	SEAL HOUSING	1	-	162	07005-00759	QUICK RELEASE CONNECTOR	1	-
136	07003-00153	'O' RING	2	-	163	07003-00142	SEAL	2	1
137	71420-02007	SEAL PLUG	1	-	164	07240-00400	VALVE HOUSING ASSEMBLY	1	-
138	71420-02300	BODY ASSEMBLY	1	-	165	07240-00209	GASKET	1	1
139	71420-02008	PISTON ROD	1	-	166	07002-00073	WASHER	4	1
140	07003-00182	'O' RING	1	1	167	07001-00554	SCREW	4	1
141	07531-00202	AIR PISTON	1	-	168	07007-01504	LABEL	1	-
142	07531-00204	END COVER	1	-	169	07240-00217	LABEL	1	-
143	07003-00183	'O' RING	1	1	170	07531-00205	LABEL	2	-
144	07004-00069	RETAINING RING	1	1	171	07005-00596	6mm PLASTIC TUBE	-	-
145	07240-00213	FOAM SILENCER	1	1	172	07245-00103	VACUUM CONNECTOR	2	-
146	07240-00214	SILENCER COVER	1	-	173	07005-00590	COMPAIR VALVE	1	1
147	07002-00017	NUT	1	1	174	07005-01431	BULKHEAD CONNECTOR	1	1
148	07240-00215	SPACER	1	-	175	07005-00668	M5 PLUG	1	-
149	07001-00417	SCREW	1	1	176	07005-00670	M5 SEALING RING	1	-
150	07240-00216	RETAINING PLATE	1	-	177	07005-01084	4mm PLASTIC TUBE	-	-
151	07001-00042	'O' RING	1	1	178	07005-01524	FESTO VALVE	1	-
152	07005-00041	CONNECTOR	1	-	179	07001-00176	SCREW	3	-
153	07003-00065	WASHER	1	-	180	07007-00292	1/4" BSP REDCAP	1	-
154	07240-00220	PROTECTION PLATE	1	-	181	07005-00647	CONNECTOR	1	-
155	07001-00375	SCREW	2	-	182	07005-01085	6mm PLASTIC TUBE	-	-
156	07003-00238	'O' RING	1	1	183	07005-00855	BULKHEAD UNION	1	-
157	07001-00396	SCREW	4	-	184	07007-01503	LABEL	1	-

Integral Handle and Trigger Assembly

Dismantling Instructions

Refer to drawing 07535-02700 (S) opposite

- Remove the Mandrel and Follower Spring from the tool.
- Disconnect the air supply.
- Remove the Nose Jaw Assembly.
- Insert a 2mm A/F Hex Wrench into the flange of the pantograph Handle 197.
- Rotate the handle until the Hex Wrench enters set Screw 191. Loosen the screw one turn.
- Repeat for the other set screw. (The set screws are at 90° to one another.)
- Slide the pantograph handle downwards, and off of the tool barrel.
- Slide the Trigger Actuating Sleeve 198 out of the pantograph Handle 197.
- Hold the pantograph handle in a vice, using a 2.5mm diameter pin gently tap out the Dowel Pin **195**. Care must be taken in retaining the Compressions Spring **196**.
- Using a 2mm A/F Hex Wrench loosen set Screw **192** one turn.
- Repeat for the other set screw. (The set screws are at 180° to one another.)
- Remove the pipe from the Male Fitting 194 and slide the Trigger Collar 200 off the tool barrel.
- Using a 2mm A/F Hex Wrench loosen the set Screw 191 from the Trigger Collar 200.
- Remove the Valve Housing 201 together with the Valve 193 and Male Fitting 194 from the Trigger Collar 200.
- Remove the Valve 193 and Male Fitting 194 from the Valve Housing 201.

Assembly Instructions

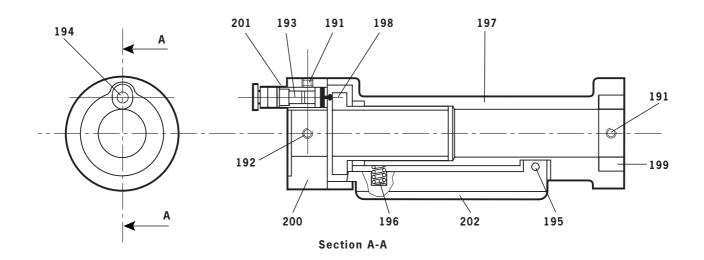
Assembly is the same procedures in reverse noting the following points.

- Assembly the Valve **193** and Male Fitting **194** to the Valve Housing **201**.
- Screw the assembled parts into the Trigger Collar 200 such that the actuating pin of the valve is within 0.25mm of the Trigger Actuating Sleeve 198 when in the assembled position.
- The Trigger Collar 200 should be firm against the plastic housing of the Placing Tool.
- The Retaining Collar 199 should be secured using the two set Screws 191 so that the pantograph Handle 197 is free to rotate.

Item numbers in **bold** refer to the illustration and parts list opposite.



Integral Handle and Trigger Assembly 07535-02700(s)



	075	35-02700(S) INTEGRA	l ha	NDLE	and '	TRIGGER AS	SEMBLY PARTS LIST		
ITEM	PART N°	DESCRIPTION	QTY	SPARES	ITEM	PART N°	DESCRIPTION	QTY	SPARES
191	07001-00514	SCREW	3	-	197	07535-02401	HANDLE	1	-
192	07001-00599	SCREW	2	-	198	07535-02402	TRIGGER ACTUATING SLEEVE	1	-
193	07005-00088	VALVE	1	-	199	07535-02405	RETAINING COLLAR	1	-
194	07005-01960	MALE FITTING	1	-	200	07535-02701	TRIGGER COLLAR	1	-
195	07007-01799	DOWEL PIN	1	-	201	07535-02702	VALVE HOUSING	1	-
196	07474-03044	COMPRESSION SPRING	1	-	202	07535-02703	TRIGGER	1	-

Pilot Valve 07005-00590 - Maintenance

Dismantling Instructions

Please note that these service instructions refer to the Compair valve where fitted. (The Festo valve is not serviceable.)

Servicing of the valve is limited to the removal/replacement of 'O' rings.

- Remove Screws 24 and remove pilot assembly .
- Remove Piston 11 and discard 'O' Rings 3, 10, 4 and 5.
- Remove Screws 26 and 21 and remove End Caps 22 and 25.
- Withdraw Pistons 12 and 18 and remove 'O' Rings 7 and 9 from pistons.
- Withdraw Spool 16 from bore, taking care not to damage surface of spool and remove location Washers 14 and 17, 'O' Ring 8, Spacers 15 and 'O' Ring 6 from each end of valve body.
- Remove five interface 'O' Rings 4.
- Discard ALL 'O' rings removed.
- Clean all parts with paraffin or white spirit. DO NOT USE SOLVENTS. Dry all parts.
- Lightly smear bores of valve Body 23, pilot valve Body 19, both End Caps 22 and 25 and all replacement 'O' rings with CENTOPLEX 2 grease.
- Fit new 'O' Rings **10**, **4** and **5** to Piston **11** and insert into pilot valve body.
- Fit new 'O' Rings 3, 10 and 6 to pilot valve Body 19, place Top Cap 20 in position and secure pilot valve assembly to main valve Body 23 with Screws 24. Ensure that the interface seal housing faces upward with the G1/4 at the bottom. Ensure orientation of Piston 11 is correct.
- With main valve Body 23 in the same position, fit green location Washer 17 to the left hand side of the Valve Assembly 13.
- Starting from the right hand side of the valve, assemble alternately 'O' Rings 8 and Spacers 15 (6 seals and 5 spacers) and finally complete the stack assembly with white location Washer 14.
- Lightly smear Spool 16 with CENTOPLEX 2 grease, supplied with the service kit, and slide spool through seal/spacer stack.
- Fit 'O' Rings 9 and 7 to respective Pistons 18 and 12, fit 'O' Rings 6 to ends of main valve Body 23.
- Insert pistons into End Caps 25 and 22 and assemble end caps to valve, taking care to locate piston shafts into holes in the ends of Spool 16.
- Secure end cap assemblies to main valve Body 23 with Screws 26 and 21.
- Fit interface 'O' Rings 4 into their housings in the main valve Body 23.
- If the pipe connection to the pilot assembly is damaged, replace Plastic Collet 2 and lift out the 'O' Ring 1 from Cartridge 27.
- Fit new 'O' Ring 1 and insert Plastic Collet 2 into Cartridge 27.

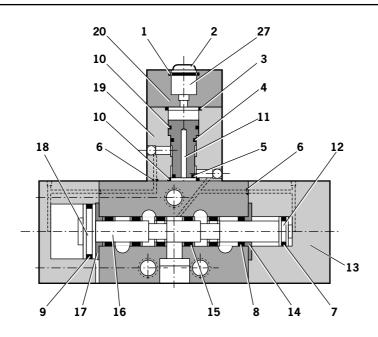
IMPORTANT

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

Item numbers in **bold** refer to the illustration and parts list opposite.



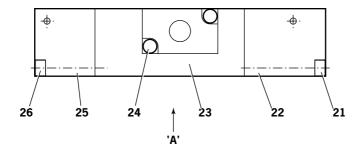
Pilot Valve 07005-00590







VIEW ON ARROW 'A' INTERFACE 'O' RINGS



07005-00590 VALVE PARTS LIST												
ITEM	PART N°	DESCRIPTION	QTY	SPARES	ITEM	PART N°	DESCRIPTION	QTY	SPARES			
1	07005-00599	* '0' RING	-	-	15	-	SPACER	5	-			
2	07005-00598	* PLASTIC COLLET	-	-	16	-	SPOOL	1	-			
3	07003-00204	* '0' RING	1	-	17	-	WASHER	1	-			
4	07003-00103	* '0' RING	6	-	18	-	PISTON	1	-			
5	07003-00042	* '0' RING	1	-	19	-	BODY	1	-			
6	07003-00121	* '0' RING	4	-	20	-	TOP CAP	1	-			
7	08005-00127	* '0' RING	1	-	21	-	SCREW	2	-			
8	07003-00105	* '0' RING	6	-	22	-	END CAP	1	-			
9	07003-00178	* '0' RING	1	-	23	-	BODY	1	-			
10	07003-00017	* '0' RING	2	-	24	-	SCREW	2	-			
11	-	PISTON	1	-	25	-	END CAP	1	-			
12	-	PISTON	1	-	26	-	SCREW	2	-			
13	07005-00590	VALVE ASSEMBLY	-	-	27	-	CARTRIDGE	1	-			
14	-	WASHER	1	-								

* Together these items make up a Service Kit for the valve with the addition of one Centoplex 2 tube of grease, the kit is available from Avdel, part number 07005-01538.



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 available in 0.5I (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.

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 Filler Screw 132 and Seal 131 from Plastic Cover Plate 134 on the intensifier reservoir.
- Pour the priming oil into the reservoir until it is approximately 1/2" (12mm) from the top.
- Replace Filler Screw 132 and Seal 131.
- Connect the intensifier unit to the air supply. Remove screw from reservoir.
- With the pistol unit fitted to the intensifier unit and held below the level of the intensifier unit, unscrew Bleed Screw 54 from Bleed Plug Assembly 2 on the 07535 Mkll 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 54 from Bleed Plug Assembly 2.
- 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 26-27 and 31.



Fault Diagnosis

Symptom	Possible Cause	Remedy	Page Ref
Tool will not place	Low air pressure.	Increase air pressure	
fastener	Lack of lubrication.	Lubricate tool at air inlet point	
	High broach load.	Check fastener grip and application	
		hole size	
	Check for correct size mandrel.		
	Worn or broken tail jaws.	New tail jaws	
	Tail jaws switched off.	Switch on tail jaws	
	Air in hydraulic system.	See 'Priming Procedure'	36
Mandrel Slip' -	Worn or dirty tail jaws.	Clean or renew as necessary	
jaws will not grip	Insufficient air pressure/volume.	Increase air pressure/volume	
mandrel	Tail jaw switch inoperable.	Replace switch	
	Air leaks to tail jaws.	Renew 'O' rings on piston 8	
	Mandrel broken and not reaching tail jaws.	Replace mandrel	
	Defective non-return valve.	Replace non-return valve	
Jaws will not	Dirty tail jaws or jaw housing.	Clean and lubricate	
release mandrel	Faulty tail jaw switch.	Replace 'O' rings	
Fasteners will not	Tail jaws not switched on.	Switch on tail jaws	
feed through nose	Worn tail jaws.	Renew tail jaws	
jaws	Cursor orientation incorrect.	Refit, ensuring correct orientation	
Jaws	Incorrect nose jaws.	Fit correct nose jaws	
	Mandrel follower spring not fitted.	Fit correct mandrel follower spring	
	Incorrect gap between fastener head	Set gap to 1.5mm - $3mm(1/16" - 1/8")$	
	and nose jaws when loaded.	See 'Loading the Tool'	9-10
	Cursor sticking.	Clean and oil cursor	510
	Weak outer spring around cursor.	Renew cursor	
	Incorrect mandrel follower spring fitted.	Fit correct mandrel follower spring	
	incorrect manarer renower spring integ.		
Excessive tail jaw	High broach load.	Check application hole size and thickness	
wear		and fastener grip capability	
Feeding more than	Mandrel slip.	Check as for 'Mandrel Slip', above	
Feeding more than one fastener at a	Mandrel slip. Incorrect gap between fastener head	Check as for 'Mandrel Slip', above Set gap to 1.5mm - 3mm (1/16" - 1/8")	

Item numbers in **bold** refer to the general assemblies and parts lists pages 26-27.

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





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 07530 MkII, type 07535

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 11202

 BS EN ISO 3744
 BS EN 982

 ISO EN 792 part 13 - 2000
 BS EN 983

following the provisions of the Machine Directive 98/37/EC

1, t

A. Seewraj - Product Engineering Manager - Automation Tools

Date of issue

This box contains a power tool which is in conformity with Machines Directive 98/37/EC. The 'Declaration of Conformity' is contained within.





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