



ProSert[™] XTN20 Blind Rivet Nut Tool – 74202

Hydro-Pneumatic Power Tool



Fig. 3



ENGLISH





REC SPARES	Ļ	2	2	2	L		L		1		1	2	2	1		1			L	-		1	1	2	3	L	1	1	1	L	1	1		с С						1
QTΥ	~	-	2	2	٦	٢	٢	1	1	1	۱	2	2	1	٦	٢	2	-	٢	-	3	1	~	2	e	٢	~	1	۱	٢	۱	٢	٢	ო	~	٢	~	2	-	-
DESCRIPTION	HEAD SPRING	BALL (RUBBER)	SCREW M3 X 12	AIR TUBE	OIL PLUG	SUSPENSION RING	TRIGGER SPRING	TRIGGER PIN	AIR SPRING	WASHER	LIP SEAL	WASHER	TIE ROD NUT	LIP SEAL	WASHER	O RING	O RING	O RING	O RING	O RING	O RING	O RING	O RING	O RING	O RING	O RING	O RING	O RING	O RING	O RING	O RING	LIP SEAL	NOSE ROD	SCREW M3 X 8	AIR INLET ASSEMBLY	BASE CAP	FRONT LABEL	SIDE LABEL	SAFETY LABEL	LOCKING PIN
PARNT NO	74202-02048	74200-12079	74202-02065	74202-02044	74202-02045	74202-02012	74202-02051	74202-02067	74202-02052	74202-02071	74202-02072	74202-02076	74202-02077	74201-12081	74202-02086	74202-02060	74202-02066	07003-00029	07003-00134	74202-02070	74202-02074	74202-02075	74202-02078	74202-02079	74202-02082	07003-00026	74201-12084	07003-00046	07003-00027	74200-12121	07003-00028	74202-02058	74202-02039	74202-02087	74202-02103	74202-02089	74202-02090	74202-02091	73200-02022	74202-02095
ITEM	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	99	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC SPARES	1																														1	L	L					1		1
QT Y	~	-	-	2	١	Ļ	Ļ	1	١	١	٦	1	١	١	٦	١	Ļ	-	١	-	٢	١	-	١	١	Ļ	-	١	-	Ļ	٦	١	Ļ	-	-	Ļ	-	۱	-	-
DESCRIPTION	HANDLE ASSEMBLY	AIR CYLINDER	AIR PISTON ASSEMBLY	TIE ROD	RUBBER BOOT	AIR TUBE	ROD GUIDE	VALVE SLEEVE	VALVE SLIDER	BEZEL SWITCH	TRIGGER VALVE	TRIGGER	NOSE CASING	CHUCK NUT	MANDREL ADAPTOR	T JOINT	LOCKING NUT	DYNAMIC PISTON ASSY	STROKE ADJUSTER	END CAP ASSEMBLY	DISTRIBUTOR ASSEMBLY	MANUAL REVERSE SWITCH	MANUAL REVERSE SCREW	SPOOL VALVE	PRESSURE ROD	PRESSURE ROD SLEEVE	SPRING GUIDE	PRESSURE CATCH	REGULATOR	REGULATOR COVER	REGULATOR LOCK	SPRING	LOCKING BEARING	PRESSURE SPRING	REGULATOR SPRING		SLEEVE	NOSE SPRING	CONNECTOR	LIP SEAL
PARNT NO	74202-02101	74202-02004	74202-02106	74202-02005	74202-02002	74202-02017	74202-02007	74202-02018	74202-02019	74202-02014	74202-02013	74202-02020	74202-02021	74202-02022	74202-02023	74202-02024	74202-02025	74202-02102	74202-02010	74202-02107	74202-02105	74202-02030	74202-02031	74202-02009	74202-02032	74202-02033	74201-12089	74202-02035	74202-02036	74202-02037	74202-02038	74202-02056	74202-02055	74202-02054	74201-12087	74202-02080	74202-02041	74202-02047	74202-02040	07265-02004
ITEM		2	с С	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
6	POP [°] X Avdel [°]																																							

Items in **bold** represent sub-assemblies which can be found on page 19.

ENGLISH

Fig. 6





ENGLISH Original Instruction

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

1. Safety Definitions

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.



DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.





CAUTION: Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Improper operation or maintenance of this product could result in serious injury and property damage. Read and understand all warnings and operating instructions before using this equipment. When using power tools, basic safety precautions must always be followed to reduce the risk of personal injury.

SAVE THESE INSTRUCTIONS. WARNING:

- 1. Do not use outside the design intent of Placing STANLEY Engineered Fastening Blind Rivet Nuts.
- Use only parts, fasteners, and accessories recommended by the manufacturer. 2.
- 3. Do not modify the tool in any way. Any modification to the tool is undertaken by the customer and will be the customer's entire responsibility and void any applicable warranties.
- Prior to use, check for misalignment or binding of moving parts, breakage of parts, and any other condition 4. that affects the tool's operation. If damaged, have the tool serviced before using. Remove any adjusting key or wrench before use.
- 5. The tool must be maintained in a safe working condition at all times and examined at regular intervals for damage and function by trained personnel. Any dismantling procedure will be undertaken only by trained personnel. Do not dismantle this tool without prior reference to the maintenance instructions.
- The operating supply air must not exceed 7 bar (100 PSI). 6.



- 7. Operators and others in work area must wear ANSI Z87.1 CAN/CSA Z94.3 approved safety glasses with side shields. Always wear safety glasses and ear protection during operation.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving 8. parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- Do not operate a tool/machine that is directed towards any person(s). 9.



- 10. DO NOT operate tool with the nose housing removed.
- 11. Adopt a firm footing or a stable position before operating the tool.
- 12. Prior to use, inspect airlines for damage, all connections must be secure. Do not drop heavy objects on hoses. A sharp impact may cause internal damage and lead to premature hose failure.
- 13. Do not lift the placing tool by the hose. Always use the placing tool handle.
- 14. Vent holes must not become blocked or covered.
- 15. Disconnect the air hose from the tool before performing any maintenance, attempting to adjust, fit or remove a nose assembly.
- 16. Keep tool handles dry, clean, and free from oil and grease.
- 17. When carrying the tool from place to place keep hands away from the trigger to avoid inadvertent activation.
- 18. Never leave operating tool unattended. Disconnect air hose when tool is not in use.
- 19. Adequate clearance is required for the tool operators hands before proceeding.
- 20. Do not abuse the tool by dropping or using it as a hammer.
- 21. Keep dirt and foreign matter out of the hydraulic system of the tool as this will cause the tool to malfunction.

STANLEY Engineered Fastening policy is one of continuous product development and improvement and we reserve the right to change the specification of any product without prior notice.

2. Specification

The ProSert XTN20 hydro-pneumatic tool is designed for placing STANLEY Engineered Fastening Blind Rivet Nuts through adjustment of the force and/or the stroke.

The ProSert XTN20 Tool is used to place Blind Rivet Nuts from a range of M3 to M10 when coupled with the relevant nose equipment. Imperial nose equipment is also available to place UNC and UNF inch thread size Blind Rivet Nuts

The safety instructions must be followed at all times.

2.1. Placing Tool Specification

Pull Force:	Pull @ stated pull pressure	e 5.0 bar	17	.65 kN	39	68 lbf	
Air Supply Pressure:	Min/Max		5-7	7 bar	72	.5-101.5 lbf/in ²	
Oil Pressure:	Pull (max)		23	0 bar	33	36 lbf/in ²	
Stroke:	Piston stroke		3-7	7 mm	0.1	18-0.275 in	
Weight:	Including nose equipmen	t	1.5	59 kg	3.5	50 lb	
Noise Level:	Uncertainty noise : K=3dB	(A)	<75 dB(A)		<7	75 dB(A)	
Vibration:	Uncertainty vibration K=0	.1 m/s ²	<2.5 m		<8	ft/s ²	
Motor Speed:	Forward & Reverse		20	00rpm	20	00rpm	
Material:	-	Aluminiu	m	Steel		Stainless Steel	
	Eurosert®	-		M3-M10		M4-M5	
	Thin Sheet Nutsert®	M3-M10		M3-M10		M3-M10	
Avdel [®] Product	DK/DL			M4-M10		-	
Range:	Euro Hexsert®/Hexsert®	-		M3-M8		M6	
	High Strength Hexsert®	-		M6-M8		-	
	Squaresert®	-		M5-M8		-	
	Standard Nut*	M3-M10		M3-M8		M4-M6	
	Knurled Nut*	M4-M8		M4-M6		-	
POP Nut®	Closed End Nut*	M3-M10		M3-M8		M4-M6	
Product Range:	Hexagonal Nut*	M4-M8		M4-M8		M4-M6	
rioudet hange.	Tetra Nut*	M4-M8		M4-M8		-	
	HB Bolt*	M6-M8		M6-M8		-	
	Pipe Nut*	M6		M6		-	
	Pull-to-Force operating m	ode	Ye	s			
	Pull-to-Stroke operating mode			Yes			
Additional Features:	Auto Spin On/Spin Off	Yes					
	Tool Free Mandrel fittings		Ye	S			
	Manual Reverse override		Yes				
	Hydraulic Lip Seals & O-rir	ngs	Ye	S			

Items with a * may require a mandrel adaptor kit (74202-02200 found in Accessories Manual 07900-01073). A complete ProSert XTN20 (74202) tool is made up of the base tool (part number 74202-02000) and the appropriate nose assembly for the insert.



2.3. Main components list

ref fig. 1	& 2		Re-order			
			Spare part numbers	Qty		
		M4	07555-09004	1		
A	Mandrel	M5	07555-09005	1		
		M6	07555-09006	1		
		M8	07555-09008	1		
		M4	07555-00904	1		
В	Nose Tip	M5	07555-00905	1		
		M6	07555-00906	1		
		M8	07555-00908	1		
С	Lock Nut	-	07555-00901	1		
13	Nose Casing	-	74202-02021	1		
14	Chuck Nut	-	74202-02022	1		
		M4	07555-09104	1		
D	Reducing Sleeve	M5	07555-09105	1		
	Reducing Sleeve	M6	07555-09106	1		
		M8	07555-09108	1		
		M4	07555-01004	1		
E	Drive Shaft	M5	07555-01005	1		
		M6	07555-01006	1		
		M8	07555-01008	1		
15	Mandrel Adaptor	-	74202-02023	1		
73	Nose Rod	-	74202-02039	1		
46	Suspension Ring	-	74202-02012	1		
20B	Stroke Slider	-	74202-02092	1		
F	Stroke Indication Markings	-	-	-		
80	Stroke Locking Pin	-	74202-02095	1		
19	Stroke Setter	-	74202-02010	1		
I	Stroke Setter Recess	-	-	_		
75	Air Inlet Assembly	-	74202-02103	1		
22	Manual Reverse Trigger	-	74202-02030	1		
31	Regulator Lock	-	74202-02038	1		
30	Pressure Regulator	-	74202-02037	1		
12	Trigger	-	74202-02020	1		
К	Pin Punch	-	07900-00624	1		

	M4	07555-09884
Complete nose assembly	M5	07555-09885
	M6	07555-09886
	M8	07555-09888

All sizes are supplied with Lock Nut (c) 07555-00901.

For additional sizes please visit www.StanleyEngineeredFastening.com



3. Tool Setup

A IMPORTANT - READ THE SAFETY RULES ON PAGE 9 & 10 CAREFULLY BEFORE PUTTING INTO SERVICE.

Before Use

- Select relevant size nose equipment and install.
- Connect the placing tool to the air supply. Test pull and return cycles by depressing and releasing the trigger 12.
- Set the tool for desired stroke/pressure.

CAUTION - correct supply pressure is important for proper function of the installation tool. Personal injury or damage to equipment may occur without correct pressures. The supply pressure must not exceed that listed in the placing tool specification.

4. Operating Instructions

 IMPORTANT - READ THE SAFETY RULES ON PAGE 9 & 10 CAREFULLY BEFORE PUTTING INTO SERVICE.

A IMPORTANT - THE AIR SUPPLY MUST BE TURNED OFF OR DISCONNECTED BEFORE FITTING OR REMOVING THE NOSE ASSEMBLY.

4.1 Nose Equipment (see Fig.2).

Fitting Instructions

Item numbers in bold refer to nose assembly components in fig 1.

- Air supply must be disconnected.
- If still fitted, remove the Nose Casing **13** and the Chuck Nut **14** while pulling back the spring loaded Nose Rod **73**.
- Insert Drive Shaft E into Mandrel Adaptor 15.
- Fit Mandrel **A** onto Drive Shaft **E**.
- Insert Reducing Sleeve D (if specified) into the Chuck Nut 14.
- Screw the Chuck Nut **14** onto the Mandrel Adaptor **15** while pulling back the spring loaded Nose Rod **73**. Tighten the Chuck Nut **14** clockwise.
- While holding the Tool, screw on the Nose Casing **13** and Nose Tip **B** with the nose tip Lock Nut **C**.
- The reverse operation is carried out for equipment removal.

With the tool still disconnected from the air supply, screw a Blind Rivet Nut onto the Mandrel manually.

- Position Nose Tip B on the Nose Casing and lock it with Lock Nut C so that the Mandrel A protrudes slightly beyond the insert.
- Lock the Lock Nut **C** by turning clockwise with a spanner*. Remove the Blind Rivet Nut from Mandrel.

*Refer to items included in the Maintenance Kit 07900-09301 page 16.

4.2 Air Supply

- All tools are operated with compressed air at an minimum pressure of 5.0 bar.
- Pressure regulators and automatic oiling/filtering systems to be used on the main air supply within 3 metres of the tool (see fig. 7).
- Air supply hoses will 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 must be oil resistant, have an abrasion resistant exterior and be armoured where operating conditions may result in hoses being damaged.
- All air hoses MUST have a minimum bore diameter of 6.4 millimetres.



If above system is not available you can use the following alternative:

- Before use or when first putting the tool into service, pour a few drops of clean, light lubricating oil into the air inlet of the tool if no lubricator is fitted on air supply. If the tool is in continuous use, the air hose should be disconnected from the main air supply and the tool lubricated every two to three hours.
- Check for air leaks. If damaged, hoses and couplings must be replaced by new items.
- If there is no filter on the pressure regulator, bleed the air line to clear it of accumulated dirt or water before connecting air hose to the tool.

4.3 Setting Instructions

- The stroke adjustment feature is mainly used for smaller insert sizes M3-M4.
- If you are setting the tool for optimum stroke the Stroke Setter should be wound in to minimum stroke (3mm) and the Pressure Regulator **30** be wound in to maximum setting.
- If you are setting the tool for optimum pressure the Stroke Setter should be wound out to maximum stroke (7mm) and the Pressure Regulator **30** be wound out to minimum setting.

When dealing with different grip thicknesses, it is always recommended that the tool is set for optimum pressure rather than optimum stroke. Use the maximum grip condition to set optimum pressure.

4.3.1. Stroke Adjustment (see Fig. 1A & 3).

To use this tool in stroke set operation, screw the Pressure Regulator **30** fully in to achieve full pressure then adjust Stroke Setter to the desired stroke length:

- Open Stroke Slider 20B
- The Stroke Locking Pin **80** will be released.
- Directional arrows indicate stoke direction.
- Increase the stroke from the minimum until optimum deformation is obtained.
- The scale gives an indication of the current stroke length.
- Increments **F** shown are 3, 5 and 7mm on one side and 4 and 6mm on the opposite.
- Line the rear of the Stroke Setter **19** up with these marks to achieve desired stroke length.
- Each Recess I on the Stroke Setter **19** is equal to +- 0.1mm of stroke.
- Close the Stroke Slider **20B** before using in the application environment.
- The Stroke Lock will activate when the Stroke Slider **20B** is closed when the tool is in the upright position
- The tool is now ready to operate.

4.3.2. Pressure Adjustment (see Fig. 1B & 3).

To use this tool in pressure set operation, wind the Stroke Setter **19** to 7mm, then screw the Pressure Regulator **30** fully out to achieve minimum pressure then adjust to the desired pressure:

- Initially the Blind Rivet Nut will not deform and the tool will spin off.
- Screw in the Pressure Regulator **30** by 1 groove on the regulator body and test.
- Repeat the operation with the Pressure Regulator **30** until optimum deformation is obtained.
- 1 notch on the Pressure Regulator **30** is equivalent to approximately 20N of pulling force.
- After a successful Blind Rivet Nut deformation, check the Blind Rivet Nut and increase the force if necessary.
- Increase by 1-2 notches extra to allow for variation in the Blind Rivet Nuts.
- The tool is now ready to operate.

5. Operating Procedure

Installing a Blind Rivet Nut (see Fig. 3).

To install a Blind Rivet Nut.

- Check that the correct Blind Rivet Nut has been selected.
- Push Blind Rivet Nut into the application.
- Check Nose Assembly is at right angle (90°) to the work.
- Push onto the Blind Rivet Nut with the tool to spin on.
- Once fully and correctly inserted, depress tool Trigger **12** switch to start installation cycle.
- Hold the Trigger **12** until the Blind Rivet Nut is completely set and the tool has disengaged completely.

In the event a Blind Rivet Nut becomes jammed in an application press the Manual Reverse Trigger **22** to reverse the Mandrel **A** and spin off the Blind Rivet Nut. Alternately disconnect from the air supply and use the 4mm Pin Punch **K** supplied in the Maintenance Kit to wind off the Mandrel through the Nose Casing **13** shown in the figure 1.

A CAUTION - do not attempt to force the installation of an insert as this will cause damage to the tool and/or application.



6. Servicing the Tool

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

Cleaning and Maintenance DISCONNECT AIR SUPPLY

Nose assemblies should be serviced at weekly intervals or every 5,000 cycles

CAUTION - Blow dirt and dust out of the main housing with dry air as often as dirt is seen collecting in and around the air vents where the Pneumatic Cylinder connects to the plastic Handle Assembly. Wear approved eye protection and approved dust mask when performing this procedure.

A CAUTION - Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the tool. These chemicals may weaken the materials used in these parts.

- Disconnect the air supply
- Remove the complete nose assembly using the reverse procedure to the Fitting Instructions page 13(4.1).
- Any worn or damaged part must be replaced by a new part.
- Particularly check wear on Mandrel.
- Assemble according to fitting instructions.

6.1 Daily Servicing

- Check for air leaks. If damaged, hoses and couplings must be replaced by new items.
- Check that the Nose Assembly is correct and fitted properly.
- Check if the stroke of the tool is adequate to place selected Blind Rivet Nut. See Stroke Adjustment page 15 (4.3.1.).
- Inspect the Mandrel **A** in the nose assembly for wear or damage. If any, replace.

6.2 Weekly Servicing

Maintenance Kit 07900-09301								
Part Number	Description	Qty						
07900-00624	4mm Pin Punch	1						
07900-00632	17mm/19mm Spanner	1						
07900-00225	5mm Hexagonal Wrench	1						

- Check for oil leaks and air leaks on air supply hose, fittings and tool.
- Check oil level by laing the tool horizontally, open Oil Plug **45.** If low, re-prime according to instruction 6.3 on page 17.

For servicing the following standard tools are needed (not supplied with Service Kit).

- 2mm Hexagonal Wrench
- 2.5mm Hexagonal Wrench
- 3mm Hexagonal Wrench
- 8mm Spanner
- 22mm Spanner or Socket
- 10mm Socket
- 14mm Spanner
- Pliers
- 10mm PTFE Tape

Spanners and Wrenches are specified across flats unless otherwise stated.



6.3 Priming

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

Oil Details

The recommended oil for priming is Hyspin[®] VG32 available in 0.5l (part number 07992-00002) or one gallon containers (part number 07992-00006).

Priming Procedure

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

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

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

The tool must remain on its side throughout the priming sequence

- Disconnect the air supply.
- Place tool on its side, Oil Plug **45** side up.
- With a 5mm hexagonal wrench, unscrew Oil Plug **45** and remove with Oil Seal Washer.
- Fill tool with priming oil rocking gently to expel air.
- Replace Oil Plug **45** with Oil Seal Washer and tighten.
- Reconnect the air supply.
- Depress the Trigger.
- Disconnect the air supply.
- Using a hexagonal wrench remove Oil Plug **45** and Oil Seal Washer.
- Top-up with priming oil to reset level. Replace Oil Seal Washer and Oil Plug **45** and fully tighten.

It is necessary to fit the appropriate nose equipment and adjust the tool stroke prior to operating the tool.

7. Maintenance

<u>I M P O R TA N T</u> SAFETY INSTRUCTIONS APPEAR ON PAGE 9 & 10. 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.

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

WARNING - The airhose must be disconnected before any servicing or dismantling is attempted unless specifically instructed otherwise.

- Dismantling operation be carried out in clean conditions.
- Before proceeding with dismantling, empty the oil from the tool. Remove oil plug **45**, from the handle assembly and drain the oil into a suitable container.
- Prior to dismantling the tool it is necessary to remove the nose assembly. For simple removal instructions see page 13 (4.1)

For complete tool servicing we advise that you proceed with dismantling of sub-assemblies in the order shown below. **See Fig. 5 (page 5)**

For complete tool strip down two additional tools a required.

Part Number	Description	QTY
07900-01074	Assembly Bullet	1
07900-01075	Seal Guide	1

Pneumatic Cylinder

- Remove Rubber Boot 5.
- Place tool with the base facing upwards in a vice fitted with soft jaws.
- Using a 8mm spanner remove the Tie Rod Nut **53** and Washer **52** the Air Cylinder **2** should move upward under spring pressure.
- Remove Base Cap **76** with 3mm Hexagonal Wrench.
- Withdraw Air Piston Assembly 3 separate Assembly by holding Piston Rod in soft jaws and unscrewing the Piston.
- Remove the spring **49**

Rod Guide

- Unscrew the Rod Guide **7** using a 22mm socket and T bar.
- Withdraw the Rod Guide 7 and Washer 50. Remove the lip seal 51 and O ring 59.

Trigger

- Remove Trigger Pin 48.
- Remove Trigger 12.
- Unscrew Bezel Switch **10** using a 10mm Socket.
- Withdraw Bezel Switch 10, Trigger Valve 11 and Spring 47



Regulator

- Unwind Pressure Switch 30 to its full extent.
 Using a 2mm Hexagonal Wrench unscrew Screw 74 remove Pressure Switch 30 Regulator Lock 31, Spring 32 and Locking Bearing 33.
- Using a 14mm Spanner unscrew the Pressure Catch **28** the Regulator **29** should then be unscrewed from the Pressure Catch **28** once withdrawn.
- Remove Spring **34** and Spring Guide **27**.
- Using Pliers gently clamp onto the Pressure Rod **25** and Pull this will remove the Pressure Rod **25** and Pressure Rod Sleeve **26** remove O Ring **66**, **68**.
- Remove Spool Valve 24, remove O Ring 65.
- Remove Lip Seal 54, to re-insert this seal use Seal Guide

Nose Equipment

- Using a 19mm Spanner unscrew Nose Casing 13.
- Retract the Nose Rod 73 and remove the Chuck Nut 14 by hand.
 Using a 14mm Spanner and the 4mm Push Pin undo the Mandrel Adaptor 15 from the Locking Nut 17 and remove both items.

Head Assembly

- Using a 2mm Hexagonal Wrench unscrew Screws **74** and remove End Cap Assembly **20**.
- Using a 2.5mm Hexagonal Wrench unscrew Screws 43 and remove Distributor Assembly 21, Ball 42 and Air Tubes 44
- Fully unscrew Stroke Adjuster **19** and withdraw Spring **41**.
- Remove Dynamic Piston Assembly **18** remove Lip Seal **72** and O Ring **70**.
- Some residual oil may be expelled when the Dynamic Piston Assembly **18** is removed.
- Remove Static Lip Seal 40.
- To reassemble, use Assembly Bullet to mask Piston Rod **18B** thread.

Manual Reverse Switch

- Remove Manual Reverse Screw 23.
- Withdraw Manual Reverse Switch 22, remove O-ring 64, 63.

Sub-Assemblies contained in Base Tool 74202-shown in exploded view

	DYNAMIC PISTON ASSEMBLY 74202-02102									
POSITION	PART NUMBER	DESCRIPTION	QTY	SPARES						
18M	74202-02006	HYDRAULIC PISTON	1	-						
18B	74202-02026	DRIVE PIN	1	-						
18C	74200-12055	WASHER	1	2						
-	74202-02104	AIR MOTOR ASSEMBLY	1	-						

	AIR INLE	r Assembly 74202-02103		
POSITION	PART NUMBER	DESCRIPTION	QTY	SPARES
74A	74202-02100	AIR FILTER	1	-
75B	07003-00026	O RING	1	-
75C	74202-02096	1/4 CONNECTION	1	-
75D	07003-00029	O RING	4	-
75E	74202-02097	MALE CONNECTION	1	-
75F	74202-02099	CIRCLIP	1	-
75G	74202-02098	FEMALE CONNECTION	1	-

	DISTRIBUTO	OR ASSEMBLY 74202-0210	5	
POSITION	PART NUMBER	DESCRIPTION	QTY	SPARES
21A	74202-02011	DISTRIBUTOR	1	-
21B	74202-02093	PIN	1	-
21C	74202-02066	O RING	2	-
21D	74202-02064	O RING	2	-
21E	74202-02063	O RING	1	-
21F	07001-0047	M4 GRUB SCREW	2	-

	AIR PISTON ASSEMBLY 74202-02106										
POSITION	PART NUMBER	DESCRIPTION	QTY	SPARES							
3A	74202-02003	AIR PISTON	1	-							
3B	74202-02015	PISTON ROD	1	-							
3C	74202-02069	O RING	1	1							
3D	07003-00029	O RING	3	3							

	END CAP ASSEMBLY 74202-02107										
POSITION	PART NUMBER	DESCRIPTION	QTY	SPARES							
20A	74202-02008	END CAP	1	-							
20B	74202-02027	SLIDER	1	-							
20C	74202-02092	END CAP STOPPER	1	-							

AIR MOTOR ASSEMBLY 74202-02104						
POSITION	PART NUMBER	DESCRIPTION	QTY	SPARES		
1M	74202-02028	MOTOR CASE	1	-		
2M	74202-02110	HOUSING	1	-		
3M	07555-09216	PIN	1	-		
4M	74202-02111	HOUSING BLOCK	1	-		
5M	07555-09215	BEARING	1	-		
6M	74202-02112	MOTOR VANE	5	5		
7M	74202-02113	MOTOR SPINDLE	1	-		
8M	74202-02114	WASHER	1	-		
9M	07555-09206	BEARING	1	-		
19M	74202-02115	WASHER	1	-		
11M	74202-02116	RING GEAR	1	3		
12M	74202-02117	PLANET GEAR	3	-		
13M	74202-02118	ROD	3	-		
14M	74202-02119	SUN GEAR	1	-		
15M	74202-02120	BEARING	1	-		
16M	74202-02121	CIRCLIP	1	1		
17M	74202-02043	MOTOR ROD	1	1		
18M	74202-02060	O RING	1	-		
19M	74202-02029	O RING	1	-		
20M	07003-00315	O RING	1	-		
21M	74202-02122	O RING	1	-		
22M	74202-02123	PLUG	1	-		
23M	07001-00479	M4 GRUB SCREW	3	-		

8. Troubleshooting guide

Symptom	Possible Cause	Remedy	Page Ref.
Pneumatic motor runs	Air leak from motor.	Check for worn seals. Replace.	18
	Low air pressure.	Increase air pressure.	14
slowly.	Air way blockage.	Clear restiction.	18
	Motor Vanes 6M jamming	Clean and lubricate.	18
	Worn or damaged Drive Shaft E.	Replace.	13
Mandrel turns independent of motor.	Worn or damaged Mandrel A.	Replace.	13
maependent of motor.	Chuck Nut 14 is loose.	Tighten Chuck Nut 14 .	13
Insert will not place onto Mandrel.	Incorrect Blind Rivet Nut thread size.	Change to correct size Blind Rivet Nut.	13
	Incorrect Mandrel A fitted.	Change to correct size Mandrel.	13
	Worn or damaged Mandrel A.	Replace.	13
	Nose equipment incorrectly assembled.	Re-fit nose equipment.	13
	Excessive stroke.	Reduce stroke.	3
Tool/Blind Rivet Nut is jammed.	Excessive pressure.	Reduce pressure.	3
	Defective Blind Rivet Nut or Mandrel A .	Press Manual Reverse 22. Alternately use Pin Punch K to manually remove the Blind Rivet Nut.	15
Mandrel Breakage.	Excessive stroke.	Reduce stroke.	14
	Excessive pressure.	Reduce Pressure.	14
	Side load on Mandrel .	Hold tool square to application.	3
Tools does not spin On.	Chuck Nut 14 is loose.	Tighten Chuck Nut 14.	13
	No air supply.	Connect air supply.	14
	Insufficient gap between Locking Nut 17 and Piston 18A.	Adjust gap to 1.5mm/2mm.	4
	Motor Rod 17M too short.	Replace Motor Rod.	5
	Air Motor jammed.	Lubricate tool at air inlet. If insufficient, dismantle and clean thoroughly.	18
Trigger 12 inoperative.	Static friction.	Depress and hold Trigger 12 a few times.	
	Low air pressure.	Increase air pressure.	14
	Valve Slider 9 remains stuck.	Depress Trigger 12 several times. Lubricate tool through air inlet. If unsuccesful, dismantle, clean and lubricate trigger components.	4 & 18
Tool does not spin off.	Chuck Nut 14 is loose.	Tighten Chuck Nut 14 .	13
	Trigger 12 released prematurely.	Press and hold for entire cycle of tool.	
	Tool not reaching pressure or stroke.	Reduce pressure or stroke setting.	14
	Distributor 21A is stuck.	Lubricate.	4
	Air Motor jammed.	Lubricate tool at air inlet. If insufficient, dismantle and clean thoroughly.	18

Item numbers in bold refer to assembly drawings and parts list Pages 2,4,5, and 6. Other symptoms or failures should be reported to your local, authorised distributor or repair centre.



9. Hydraulic Oil General Safety Data

FIRST AID

SKIN:

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or exposure may lead to dermatitis. Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin. Launder contaminated clothing.

ORAL:

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea.

If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice. Take person to nearest medical centre.

EYES:

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs. Wash eyes thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.

DISPOSAL:

Remove all spills with inert absorbent material. Ventilate spill area. Place contaminated materials in a disposable container and dispose in a manner consistent with local regulations.

PROTECTING THE ENVIRONMENT:

Separate collection. This product must not be disposed of with normal waste. Should you find one day that your product needs replacement, or if it is of no further use to you, do not dispose of it with regular waste. Make this product available for separate collection. Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials. Local regulations may provide for separate collection of electrical products, at municipal waste sites or by the retailer when you purchase a new product. You can check the location of your nearest authorised repair agent by contacting your local STANLEY Engineered Fastening office at the address indicated in this manual. Alternatively, a list of authorised repair agents and full details of our after-sales service and contacts are available on the Internet at: www.StanleyEngineeredFastening.com

C.O.S.H.H. data for all hydraulic oils and lubricants is available on request from your tool supplier.

FIRE:

FLASH POINT: 200°C.

Extinguish with dry, chemical, foam or carbon dioxide. Do not enter confined space without self contained breathing apparatus.

HANDLING:

Use barrier cream or oil resistant gloves.

STORAGE:

Undercover and consistent with local regulations for inflammable material.



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Find your closest STANLEY Engineered Fastening location on www.StanleyEngineeredFastening.com/ contact

For an authorized distributor nearby please check www.StanleyEngineeredFastening.com/econtact/ distributors

Manual Number	lssue	C/N
07900-09302	А	15/043

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