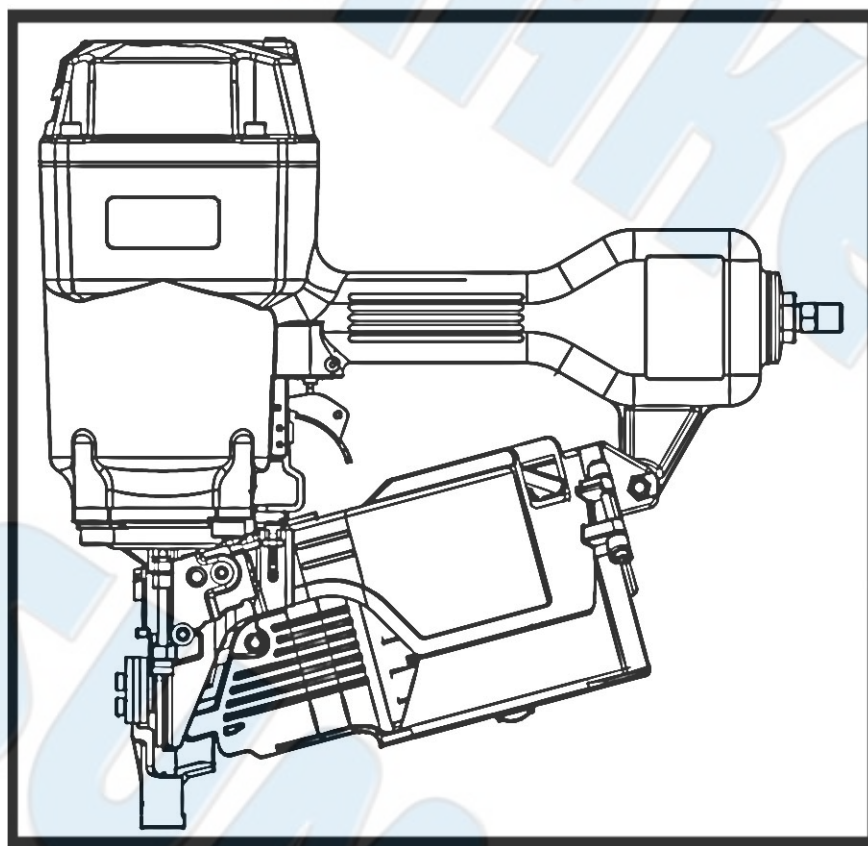




SUMAKE *PNEUMATIC TOOLS*



Air Coil Nailer R-100PA

SUMAKE INDUSTRIAL CO., LTD

4F,NO.351,Yanguang St.,Neihu District TAIPEI, TAIWAN, ZIP:114-91



R-100PA-S-1405B-AC

TOOL SPECIFICATIONS

MODEL OF TOOL	R-100PA
TOOL LENGTH	15.75" (400 mm)
TOOL HEIGHT	15.16" (385 mm)
TOOL WIDTH	6.10" (155 mm)
WEIGHT (WITHOUT FASTENERS)	11.02 lbs (5 kg)
AIR INLET	1/4" NPT

COMPRESSED AIR :

Maximum permissible operating pressure	115 PSIG (8 bar)
Recommended operating pressure range	75 ~ 110 PSIG (5 ~ 7.5 bar)
AIR CONSUMPTION	0.1131 scfm with 25 nails per minute @ 100 psi (6.9 bar)

Noise dB(A) :

A-weighted sound pressure level LpA..... 87.08 dB(A)

A-weighted sound power level LwA..... 100.08 dB(A)

Measurement uncertainty: 3dB

Vibration (m/s²) :

Hand-arm vibration value..... 5.47 m/s²

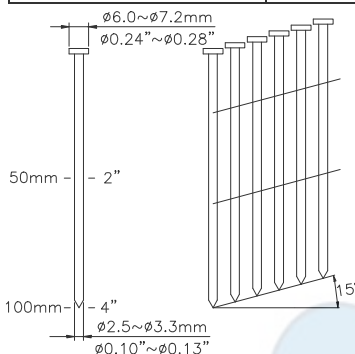
Measurement uncertainty: 1.5 m/s²

Warning:

The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operation cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

List of fasteners for R-100PA :

Shank Dia.	Head Dia.	MAGAZINE
φ 2.5 ~ φ 3.3 mm φ 0.10 ~ φ 0.13 "	φ 6.0 ~ φ 7.2 mm φ 0.24 ~ φ 0.28 "	400 pcs



Foreword:

This pneumatic coil nailer is designed for blocking, pallet making and crate and box assembling. Its well balanced, ergonomic, comfort non-slip cushioned grip and heavy duty driving compatible staples to proper applications ensure you a satisfactory tackle and enjoy work. Fast speed improves work efficiency.

Suitable applications:

Blocking, pallet making, crate and box assembling.

Caution:

Coil nailers are only applying on wood. Not suitable for stapling or nailing into concrete, masonry bricks or steel. Do not fire if staples are jammed, as this will cause damage to the relevant parts.



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



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



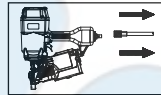
Alerts the operator to useful information.

SAFETY INSTRUCTIONS



1. Read this manual and understand all safety instructions before operation the tool. If you have any questions, please contact our authorized representatives.
2. Only those fasteners listed in the operating instructions may be used in the fastener driving tools.
3. Only the main energy and the lubricants listed in the operating instructions may be used.
4. Fastener driving tools marked with an inverted equilateral triangle standing on one point may only be used with an effective safety yoke.
5. Fastener driving tools equipped with contact actuation or continuous contact actuation, marked with the symbol " Do not use on scaffoldings, ladders", shall not be used for specific application for example:
 - when changing one driving location to another involves the use of scaffoldings, stairs, ladders, or ladder alike constructions, e.g. roof laths,
 - closing boxes or crates,
 - fitting transportation safety systems e.g. on vehicles and wagons.
6. For the maintenance of fastener driving tools, only spare parts specified by the manufacturer or his authorized representative shall be used.
7. Repairs shall carried out by agents authorized by the manufacturer or by other specialists, having due regard to the information given in the operating instruction.

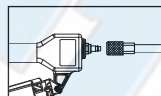
8. Stands for mounting the fastener driving tools to a support for example a work table shall be designed and constructed by the stand manufacturer in such a way that the fastener driving tool can be safely fixed for the intended use, thus for example avoiding damage, distortion or displacement.
9. Fastener driving tools operated by compressed air shall only be connected to compressed air lines where the maximum allowable pressure cannot be exceed by a factor of more than 10%, which can for example be achieved by a pressure reduction valve which includes a downstream safety valve.
10. When using fastener driving tools operated by compressed air, particular attention must be paid to avoid exceeding the maximum allowable pressure.
11. When using fastener driving tools operated by compressed air should only be operated at the lowest pressure required for the work process at hand, in order to prevent unnecessarily high noise levels, increased wear and resulting failures.
12. Hazards caused by fire and explosion when using oxygen or combustible gases for operating compressed air operated fastener driving tools.
13. Carry the fastener driving tool at workpiece using only the handgrip, and never with the trigger actuated. Never carry the tool by the hose or pull the hose to move the tool.



14. Disconnect the tool from air supply before cleaning jams, servicing, adjusting, and during non-operation.



15. Wear eye protection.



16. Do not use a check valve or any other fitting which allows air to remain in the tool.



17. Do not place your hand or any part of your body in the fastener discharge area of the tool when connecting or disconnecting air supply.



18. Never point tool at yourself or at any other person.



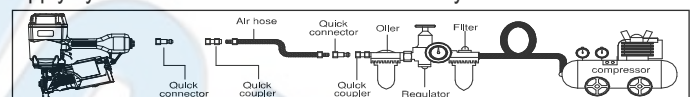
19. Do not use on scaffoldings, ladders.

AIR SUPPLY AND CONNECTION

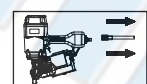
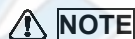


- Many air tool users find it convenient to use oiler to help provide oil circulation through tool and increase the efficiency and useful life of the tool. Check oil level in the oiler daily.
- Many air tool user find it convenient to use a filter to remove liquid and impurities which can rust or wear internal parts of the tool. A filter also increase the efficiency and useful of the tool. The filter must be checked on a daily basis and if necessary drained.
- For better performance, install a 3/8" quick connector (1/4" NPT threads) with an inside diameter of .315" on your tool and a 3/8" quick coupler on the air hose.

The following illustration shows the correct mode of connection to the air supply system which will increase the efficiency and useful life of the tool.



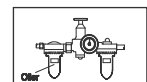
LUBRICATION AND MAINTENANCE



- Disconnect the air supply from the tool before lubricating.



- Your tool requires lubrication before you use it for the first time.



- Wipe off excessive oil at the exhaust. Excessive oil will damage O-rings of tool. If in-line oiler is used, manual lubrication through the air inlet is not required on a daily basis.



- Turn the tool so the inlet is facing up and put one drop of high speed spindle oil, UNOCAL RX22, or 3-IN-1 oil into air inlet. Never use detergent oil or additives. Operate the tool briefly after adding oil.

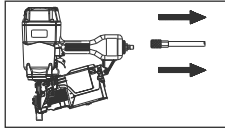
LOADING THE TOOL

WARNING

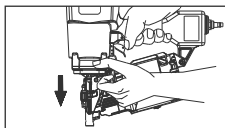
- Do not place your hand or any part of your body in the fastener discharge area of the tool when connecting or disconnecting air supply.

WARNING

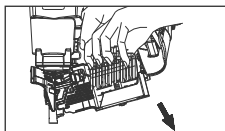
- Never point any operational fastener driving tool at yourself or at any other person.



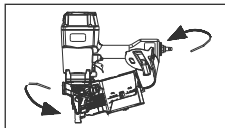
1. Disconnect air hose.



2. Press down on the feeder door latch and lift open feed door. Fold back magazine cover.



3. Place the nail coil in the magazine. Make sure nail tip face down and nails have no damages.



4. Close canister cover. And then close door. Make sure door latch is fully latched.

OPERATING THE TOOL

WARNING

Protect your eyes and ears. Wear z87.1 safety glasses with side shields. Wear hearing protection. Employers and users are responsible for ensuring the user or anyone near the tool wear this safety protection.

NOTE

Check and replace any damaged or worn components on the tool. The safety warning labels on the tool must also be replaced if they are not legible.



Fig.1

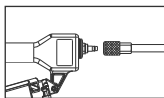


Fig.2

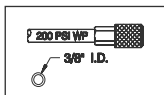


Fig.3



Fig.4

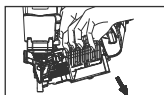


Fig.5

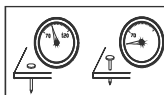


Fig.6

1. Add a few drops of UNOCAL RX22 or 3-in-1 oil into the air inlet. (See Fig. 1)
2. Attach a high flow quick connect fitting to the tool. (See Fig. 2)
3. Empty the magazine.
4. Connect the tool to an air compressor using a 3/8" I.D hose. Make sure the hose has a rated working pressure exceeding 200 PSI (13.8bar) and a female quick coupler. (See Fig. 3)
5. Regulate the air pressure to obtain 70 PSI (4.8 bar) at the tool. (See Fig. 4)
6. Disconnect the air supply from the tool.
7. Load fasteners into your tool following the instructions in this manual. (See Fig. 5)
8. Reconnect the air supply to the tool.
9. Test for proper fastener penetration by driving nails into a sample piece of wood. If the fasteners do not achieve the desired penetration, adjust the air pressure to a higher setting until the desired penetration is achieved. Do not exceed 110 PSI (7.6 bar) at the tool. (See Fig. 6)

CONTACT SAFETY TRIP MECHANISM

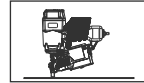
OPERATING A CONTACT SAFETY TRIP TOOL :



- The operator requires finger to be off the trigger and the nose of the tool to be placed on the workpiece.



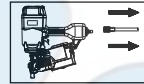
- The contact safety trip mechanism is then depressed against the workpiece and the trigger is pulled to drive a fastener.



- The trigger is released after each fastener is driven.

- Move the tool to next location and the above procedure repeated.

CHECKING OPERATION OF CONTACT SAFETY TRIP MECHANISM:



- Disconnect the air supply from the tool.



- Empty the magazine.



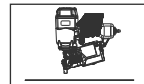
- Make sure the trigger and contact safety trip mechanism move up and down without any sticking.



- Connect air supply to the tool.



- Depress the contact safety trip mechanism against the workpiece without pulling the trigger. The tool must not cycle. Never use the tool if a cycle occurs.



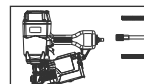
- Hold the tool clear of the workpiece. The contact safety trip mechanism should return to its original down position. Pull the trigger. The tool must not cycle. Never use the tool if a cycle occurs.



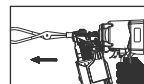
- Depress the contact safety mechanism against the workpiece and pull the trigger, the tool must cycle.

CLEARING A JAM FROM THE TOOL

WARNING



Disconnect the tool from air compressor before adjusting, clearing jams, servicing, relocating and during non-operation.



1. Fastener jammed in fastener discharge area:

- Disconnect tool from air hose.
- Grab jammed fastener with pliers and remove.



2. Fastener jam inside magazine:

- Disconnect air tool from air hose.
- Pull back on fastener pusher until locked.
- Removed jammed fastener.
- Release fastener pusher.

CLEANING THE TOOL

DANGER

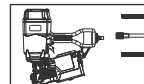


Never use gasoline or other flammable liquids to clean the tool. Vapors in the tool will ignite by a spark and cause the tool to explode and result in death or serious personal injury.

NOTE



Solvents used to clean the nose of the tool and contact safety trip mechanism may soften the tar on the shingles and cause the buildup to be accelerated. Make sure to dry the tool thoroughly after cleaning and before operating the tool again.

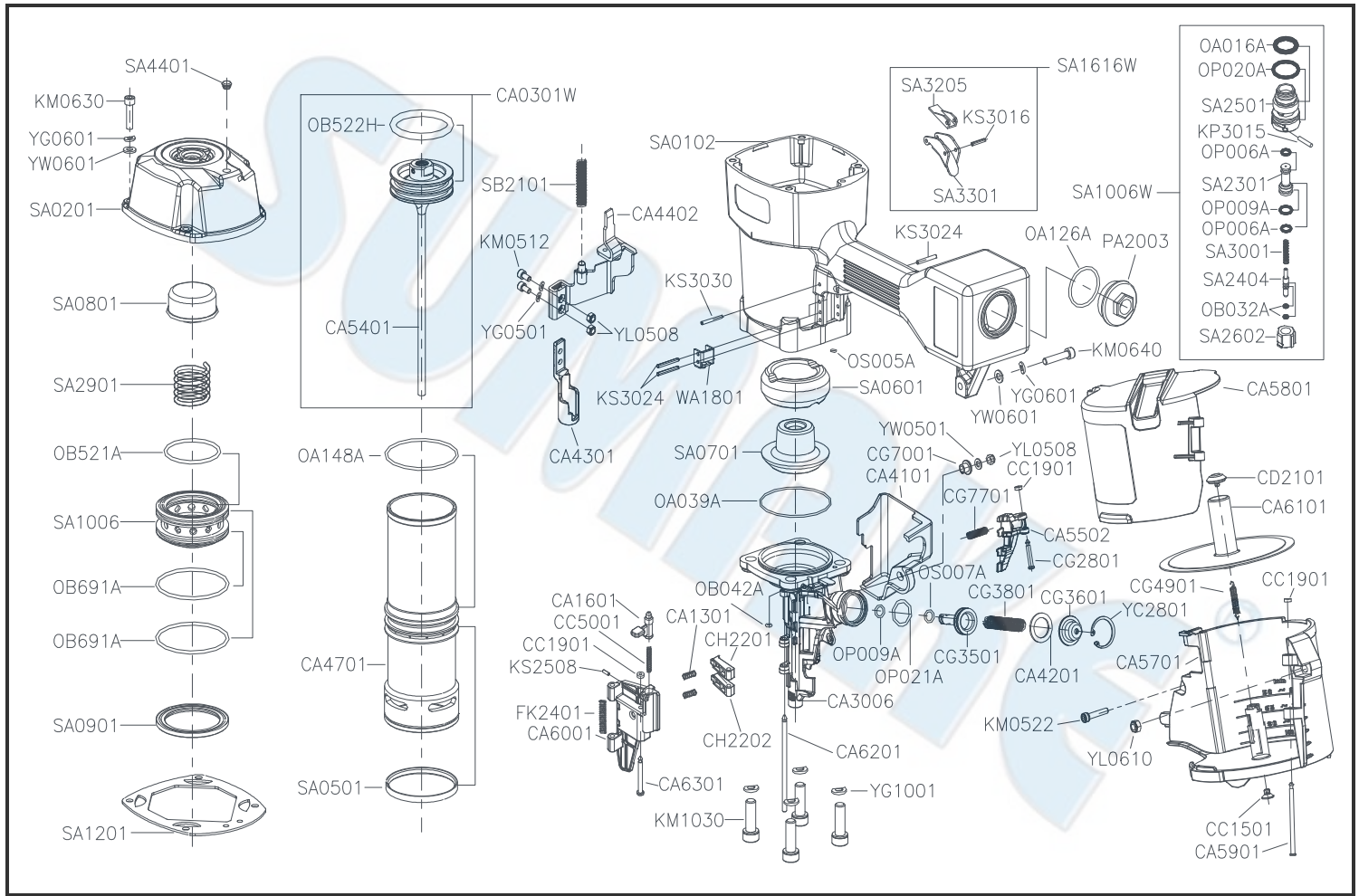


1. Disconnect the air supply from the tool.



2. Remove tar buildup with kerosene #2 fuel oil or diesel fuel. Do not allow solvent to get into the cylinder or damage may occur. Dry off the tool completely before use.

R-100PA Air Coil Nailer



Part_No	Description	Spec	Q'ty	Part_No	Description	Spec	Q'ty	Part_No	Description	Spec	Q'ty
CA0301W	DRIVER ASSY.		1	CH2202	HOLDING PAWL		1	SA0501	CHECK SEAL		1
CA1301	COMPRESSION SPRING		2	FK2401	COMPRESSION SPRING		1	SA0601	TOP BUMPER		1
CA1601	DOOR LATCH		1	KM0512	HEX.SOC.HD.BOLT	M5×0.8 - 12L	2	SA0701	BOTTOM BUMPER		1
CA3006	NOSE		1	KM0522	HEX.SOC.HD.BOLT	M5×0.8 - 22L	1	SA0801	PISTON STOP		1
CA4101	TRIP COVER		1	KM0630	HEX.SOC.HD.BOLT	M6×1.0 - 30L	4	SA0901	HEAD VALVE SEAL		1
CA4201	PISTON BUMPER		1	KM0640	HEX.SOC.HD.BOLT	M6×1.0 - 40L	1	SA1006	HEAD VALVE PISTON		1
CA4301	WORK CONTACTING ELEMENT		1	KM1030	HEX.SOC.HD.BOLT	M10×1.5 - 30L	4	SA1006W	RESTRICTIVE TRIGGER ASSY.		1
CA4402	SAFETY		1	KP3015	PARALLEL PIN	φ3×15L	2	SA1201	CAP SEAL		1
CA4701	CYLINDER		1	KS2508	SPRING PIN	φ2.5-8L	1	SA1616W	TRIGGER ASSY.		1
CA5401	DRIVER SET		1	KS3016	SPRING PIN	φ3-16L	1	SA2301	PILOT VALVE		1
CA5502	FEED PAWL		1	KS3024	SPRING PIN	φ3-24L	4	SA2404	TRIGGER VALVE STEM		1
CA5701	CANISTER		1	KS3030	SPRING PIN	φ3-30L	1	SA2501	TRIGGER VALVE SEAT		1
CA5801	CANISTER COVER		1	OA016A	O-RING	ARP568-016	1	SA2602	TRIGGER VALVE SEAT		1
CA5901	PIN		1	OA039A	O-RING	ARP568-039	1	SA2901	COMPRESSION SPRING		1
CA6001	DOOR		1	OA126A	O-RING	ARP568-126	1	SA3001	COMPRESSION SPRING		1
CA6101	FIXED SEAT		1	OA148A	O-RING	ARP568-148	1	SA3205	CONTACT LEVER		1
CA6201	PIN		1	OB032A	O-RING	2.5×1.4	2	SA3301	TRIGGER		1
CA6301	PIN		1	OB042A	O-RING	3.5×1.8	1	SA4401	GROMMET		1
CC1501	SPRING RECEIVER		1	OB521A	O-RING	51.5×3.1	1	SB2101	COMPRESSION SPRING		1
CC1901	BUSHING		3	OB522H	O-RING	52.0×6.35	1	WA1801	SAFETY GUIDE		1
CC5001	COMPRESSION SPRING		1	OB691A	O-RING	68.5×2.95	2	YC2801	C-RING	φ28	1
CD2101	SPRING RECEIVER		1	OP006A	O-RING	P6	2	YG0501	SPRING WASHER	φ5	2
CG2801	PIN		1	OP009A	O-RING	P9	2	YG0601	SPRING WASHER	φ6	5
CG3501	FEED PISTON CAP		1	OP020A	O-RING	P20	1	YG1001	SPRING WASHER	φ10	4
CG3601	FEED PISTON CAP		1	OP021A	O-RING	P21	1	YL0508	LOCK NUT	M5×0.8	3
CG3801	COMPRESSION SPRING		1	OS005A	O-RING	S-5	1	YL0610	LOCK NUT	M6×1.0	1
CG4901	PULL SPRING		1	OS007A	O-RING	S-7	1	YW0501	FLAT WASHER	φ5	1
CG7001	BUSHING		1	PA2003	END CAP		1	YW0601	FLAT WASHER	φ6	5
CG7701	COMPRESSION SPRING		1	SA0102	BODY		1				
CH2201	HOLDING PAWL		1	SA0201	CYLINDER CAP		1				



EC DECLARATION OF CONFORMITY

We: **SUMAKE INDUSTRIAL CO., LTD.**

4F, No. 351, Yangguang St., Neihu District, Taipei City, Taiwan

declare in sole responsibility that the equipment

Equipment : **AIR COIL NAILER**

Model/ Serial No. : **R-100PA**

to which this declaration applies, complies with these normative documents:

- Machinery Directive: 2006/42/EC

and conforms to the following EN standard,

- EN ISO 12100: 2010
- EN ISO 11148-13:2018

Name and Signature/Position

Mike Su – Managing Director

Date and Place

2022/12/1

Taipei, Taiwan

R-100PA-D-2310B-AC