ECHNICAL INFORMATION



Models No. > AR410HR

Description > Pneumatic Auto Feed Coil Screwdriver

CONCEPT AND MAIN APPLICATIONS

Model AR410HR is a pneumatic screwdriver powered by high pressure air. Drives coil type collated drywall screws exactly to depth and fastens plasterboard securely to wood/metal drywall stud.

Its main benefits are:

- Compact body for easy handling and high maneuverability
- High power allowing to fasten plasterboard securely to metal stud of even 0.8mm thick steel plate without unseated screw
- Optimum for operation in job sites among residential area thanks to low-noise air exhaust
- Rigid contact arm enabling to make fine finish constantly



Dimensions: mm		
Length (L)	296	
Width 1 (W1)	142	
Width 2 (W2)	116	
Height (H)	305	

Width 1: with Hook Width 2: without Hook

Specification

	Screw type		Plastic sheet collated drywall screws (coil type)	
Screw	Shank diameter:	Wood backing	3.8 (Coarse thread)	
	mm	Metal backing	3.5 (Fine thread)	
	Length: mm		25, 28, 32, 41	
	Screws per coil		100 screws	
Magazine capacity			100 screws	
Operating air pressure: MPa			1.76 - 2.26	
(kgf/cm2)			(18 - 23)	
Pressure regulator valve			Yes	
Fire mechanism			Bump-fire*1/ Sequential*2	
Driving depth adjustment			Yes (by dial)	
Trigger lock-off function			Yes	
Net weight: kg			1.9	

*1: Screws can be driven one after the other continuously first by pulling Trigger then by bumping Contact arm against workpiece with the Trigger being pulled.

*2: One screw is driven first by pushing Contact arm against workpiece, then by pulling Trigger with the Contact arm kept pushed; screw cannot be driven when the steps are reversed. Another one can be driven by releasing Trigger, then by repeating the steps; however, cannot be driven if Trigger is not released before repetition of the steps.

Standard equipment

Hook	1
Safety goggles	1
Oil supply (containing 30ml of turbine oil)	1
Hex wrench 4	1
Driver bit	1
Plastic carrying case	1

Note: The standard equipment for the tool shown above may vary by country.

► Optional accessories

Plastic sheet collated drywall screws (coil type) [3.5mm shank diameter: 25, 28, 41mm; 3.8mm shank diameter: 25, 28, 32, 41mm] Air hose Air leak repair set

CAUTION: Disconnect the air hose from the machine and then remove remaining screws for safety before repair/ maintenance in accordance with the instruction manual!

[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for	
1R003	Retaining ring S pliers ST-2N	Removing Pipe 13	
1R027	Bearing setting pipe 18-10.2	Assembling Rotor	
1R045	Gear extractor (large)	Disassembling Rotor	
1R346	Center attachment for 1R045	- Disassemoning Rotor	
1R229	1/4" Hex. shank bit for M5	Screwing/unscrewing M5 Hex socket head bolt	
1R266	Spring pin extractor 2	Disassembling Adjuster complete and Adjuster shaft	
1R267	Spring pin extractor 2.5	Disassampling Trigger and Idlar	
1R268	Spring pin extractor 3	Disassembling frigger and faler	
1R273	Ring spring 26 setting tool B	Assembling Air Motor section	
1R291	Retaining ring S & R pliers	Disassembling/assembling Retaining ring R-24 from/to Feed piston	

[2] LUBRICATIONS

Apply **ISOFLEX NB52** to the portions designated with the **white arrow**, and apply lubricant **VG32** to the portions designated with **black arrow**, to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate
	Nail drive continu	Cylinder, O rings, Driver bit set, etc.
	Ivali drive section	Air Motor (Apply lubricant "VG32" to the Drum portion of Air motor.)
	Trigger valve section	O rings, Trigger valve case, Trigger stem, Pilot valve, etc.
	Inlet section	Plug, Inlet cap, etc.
	Nail feed piston section	Cup washer, O rings, etc.
Fig. 1 Drive sec	etion otor	Trigger valve section

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Fastening Torque for Bolts ans Scerws

Tighten the bolts and scerws to the required fastening torque.

* Apply a little amount of Loctite 242 or Three Bond 1321/1342 to the threaded portion of (77) Plug.

Item No.	Description	Q'ty	Used for	Fastening torque (N.m)
	M5x80 Hex socket head bolt	4	Fastening Top cap and Top cap spacer to Housing	8.0
3	M4x8 Hex socket button head bolt	1	Fastening Knob to Change valve	2.5
(76)	M5x30 Hex socket head bolt	4	Fastening Inlet cap to Housing	8.0
(77)	Threaded portion of Plug	1	Fastening Inlet and Inlet cap 9 to Housing	7.0
93	M5x22 Pan head screw	1	Fastening Hook to Hook base	2.5
(119)	M5x16 Hex socket head bolt	1	Fastening Contact arm cover to Driver guide complete	2.5
(121)	M5x12 Hex socket head bolt	2	Fastening Driver guide complete to Housing	8.0
(128)	M5x28 Hex socket head bolt	1	Fastening Magazine and Hook base to Housing	2.5



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Repair [3] DISASSEMBLY/ASSEMBLY [3]-2. Top Cap Section

DISASSEMBLING

1) After removing Top cap and Top cap spacer from Housing, remove Head valve and Cylinder stay from Top cap using air duster to blow air into the space between Top cap and Head valve using air pressure. (**Fig. 3**)

2) Remove Knob from Top cap, then disassemble the other parts from Top cap as illustrated in **Fig. 4**.







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Repair [3] DISASSEMBLY/ASSEMBLY [3]-2. Top Cap Section

ASSEMBLING

1) Assemble Top cap section as described in Figs. 5, 6.

2) Assemble O rings to Cylinder stay and Head valve as described in Fig. 7.

Fig. 5



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[3] DISASSEMBLY/ASSEMBLY[3]-2. Top Cap Section

ASSEMBLING

3) Assemble Head valve and Cylinder stay to Top cap (left in **Fig. 8**); assembling of Top cap section is now completed. Then assemble Top cap section, Top cap spacer and Top cap gasket to Housing as illustrated on right in **Fig. 8**.

Fig. 8



[3]-3. Driver Bit

DISASSEMBLING

1) Disassemble Top cap and Top cap spacer from Housing as described on left in **Fig. 3**.

2) Disassemble Driver bit as described in Fig. 9.



Repair [3] DISASSEMBLY/ASSEMBLY [3]-3. Driver Bit

ASSEMBLING

Do the reverse of the disassembling steps.

Note: Be careful with the following:

- Piston cap is directional when assembled to Driver bit. (Fig. 10)
- •Align Driver bit with the hole of Carrier complete when assembling Driver bit to the machine. (Fig. 11)



[3]-4. Cylinder Section

DISASSEMBLING

1) Disassemble Top cap and Top cap spacer from Housing as described on left in Fig. 3.

2) Disassemble Cylinder section as described in Fig. 12.



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[3] DISASSEMBLY/ASSEMBLY [3]-4. Cylinder Section

DISASSEMBLING

- 3) Sealing rings can be removed from Outer cylinder, Separator, Cylinder, Cushion guide and Front cushion assembly as illustrated in Fig. 13.
- 4) From Outer cylinder, remove Cylinder seal as described in Fig. 14.





ASSEMBLING

Do the reverse of the disassembling steps. (Figs. 14, 13, 12, 3)

[3]-5. Air Motor Section

DISASSEMBLING

- 1) Disassemble Top cap and Top cap spacer from Housing as described on left in **Fig. 3**.
- 2) Disassemble Cylinder section as described in Fig. 12.
- 3) Disassemble Air motor section from Housing, then remove Internal spur gear 44 as described in Fig. 15.



[3] DISASSEMBLY/ASSEMBLY[3]-5. Air Motor Section

DISASSEMBLING

4) Disassemble Air motor section and remove Rotor and Upper drum cap as described in Fig. 16.

5) Rotor can be disassembled as described in Fig. 17.

Fig. 16





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[3] DISASSEMBLY/ASSEMBLY [3]-5. Air Motor Section

DISASSEMBLING

6) Spring pin 2.5-5 and Ball bearing 689ZZ can be removed as described in Fig. 18.

Fig. 18



ASSEMBLING

1) Assemble Rotor to Upper drum cap as described in **Fig. 19**.



[3] DISASSEMBLY/ASSEMBLY[3]-5. Air Motor Section

ASSEMBLING

2) Assemble Upper drum cap to Drum as described in Fig. 20.

Fig. 20



3) Assemble Lower drum cap to Drum as described in Fig. 21.



[3] DISASSEMBLY/ASSEMBLY[3]-5. Air Motor Section

ASSEMBLING

4) Assemble Air motor section to Housing as illustrated in Figs. 22, 23.

Fig. 22





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[3] DISASSEMBLY/ASSEMBLY[3]-5. Air Motor Section

ASSEMBLING

5) Before assembling Cylinder section to Housing, make sure if Air motor section is properly assembled to Housing by doing the test as described in **Figs. 24**, **25**.

Fig. 24



6) Assemble Cylinder section to Housing. (**Fig. 12**)

7) Assemble Top cap section to Housing as illustrated on left in Fig. 3.

[3] DISASSEMBLY/ASSEMBLY[3]-6 Magazine Section

DISASSEMBLING

1) Separate Magazine section from Housing as described in Fig. 26.

2) The Magazine section can be disassembled as described in Fig. 27.

Fig. 26





[3] DISASSEMBLY/ASSEMBLY[3]-7. Trigger Valve Section

DISASSEMBLING

In order to separate Trigger valve section from Housing, first, remove Spring pin 3-28 (3 pcs)and Trigger. (Fig. 28)
Pull off Trigger valve section from Housing, then disassemble it as described in Fig. 29.

Fig. 28





[3]-7. Trigger Valve Section

ASSEMBLING

1) Mount O rings to Pilot valve as described in Fig. 30.

2) Assemble Trigger valve section. (Refer to the bottom illustration in Fig. 29.)

When assembling Trigger valve guide to Trigger valve case, push it toward Trigger valve case until it snaps in place.

Fig. 30



Set Trigger valve section in Housing as illustrated in Fig. 31.
Fig. 31



4) Secure Trigger valve section to Housing with Spring pin 3-28 as described in **Fig. 32 Fig. 32**



[3] DISASSEMBLY/ASSEMBLY[3]-8. Adjuster, Contact Arm Assembly

DISASSEMBLING

Separate Driver guide section from Housing, then separate Contact arm assembly from Driver guide section. (Fig. 33)
Disassemble Contact arm assembly as described in Fig. 34.

Fig. 33





[3] DISASSEMBLY/ASSEMBLY[3]-8. Adjuster, Contact Arm Assembly

DISASSEMBLING

3) The parts of Chuck portion can be disassembled from Contact arm as illustrated in Fig. 35.

Fig. 35



ASSEMBLING

1) Assemble the parts of Chuck portion to Contact arm as described in Fig. 36.

2) Then do the reverse of the disassembling steps. (See Figs. 34, 33.)



[3] DISASSEMBLY/ASSEMBLY[3] -9. Driver Guide, Feed Piston

DISASSEMBLING

Urethane ring 3

1) Disassemble Driver guide section and Feed piston as described in Figs. 37, 38, 39.

Fig. 37



Pin 4

[3] DISASSEMBLY/ASSEMBLY [3]-9. Driver Guide, Feed Piston

ASSEMBLING

Do the reverse of the disassembling steps. (Refer to Figs. 39, 38, 37.)

[3]-10. Inlet Cap, Plug

DISASSEMBLING

Disassemble Plug and Inlet cap as described in **Figs. 40, 41, 42**. **Fig. 40**

Clamp the hex portion of Plug in vise. Then, by turning the machine clockwise, Plug section can be removed from the machine. Plug section can be disassembled as illustrated below. Comical compression spring 5-10 Sheet packing Plug O O Cap 9







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