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

Specification

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

*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
Repair

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

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

[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.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Portion to lubricate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nail drive section</td>
<td>Cylinder, O rings, Driver bit set, etc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Air Motor (Apply lubricant “VG32” to the Drum portion of Air motor.)</td>
</tr>
<tr>
<td></td>
<td>Trigger valve section</td>
<td>O rings, Trigger valve case, Trigger stem, Pilot valve, etc.</td>
</tr>
<tr>
<td></td>
<td>Inlet section</td>
<td>Plug, Inlet cap, etc.</td>
</tr>
<tr>
<td></td>
<td>Nail feed piston section</td>
<td>Cup washer, O rings, etc.</td>
</tr>
</tbody>
</table>
Repair

[3] DISASSEMBLY/ASSEMBLY
[3]-1. Fastening Torque for Bolts ans Screws

Tighten the bolts and screws to the required fastening torque.
* Apply a little amount of Loctite 242 or Three Bond 1321/1342 to the threaded portion of Plug.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Q’ty</th>
<th>Used for</th>
<th>Fastening torque (N.m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>M5x80 Hex socket head bolt</td>
<td>4</td>
<td>Fastening Top cap and Top cap spacer to Housing</td>
<td>8.0</td>
</tr>
<tr>
<td>③</td>
<td>M4x8 Hex socket button head bolt</td>
<td>1</td>
<td>Fastening Knob to Change valve</td>
<td>2.5</td>
</tr>
<tr>
<td>⑦</td>
<td>M5x30 Hex socket head bolt</td>
<td>4</td>
<td>Fastening Inlet cap to Housing</td>
<td>8.0</td>
</tr>
<tr>
<td>⑦⑦</td>
<td>Threaded portion of Plug</td>
<td>1</td>
<td>Fastening Inlet and Inlet cap 9 to Housing</td>
<td>7.0</td>
</tr>
<tr>
<td>⑨⑨</td>
<td>M5x22 Pan head screw</td>
<td>1</td>
<td>Fastening Hook to Hook base</td>
<td>2.5</td>
</tr>
<tr>
<td>⑪⑪</td>
<td>M5x16 Hex socket head bolt</td>
<td>1</td>
<td>Fastening Contact arm cover to Driver guide complete</td>
<td>2.5</td>
</tr>
<tr>
<td>⑫⑫</td>
<td>M5x12 Hex socket head bolt</td>
<td>2</td>
<td>Fastening Driver guide complete to Housing</td>
<td>8.0</td>
</tr>
<tr>
<td>⑭⑭</td>
<td>M5x28 Hex socket head bolt</td>
<td>1</td>
<td>Fastening Magazine and Hook base to Housing</td>
<td>2.5</td>
</tr>
</tbody>
</table>

**Fig. 2**

Diagram of the components and assembly parts of the device.
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.

Fig. 3

1. By removing four M5x80 Hex socket head bolts using 1R299, separate Top cap, Top cap spacer and Top cap gasket from Housing. Then remove Top cap and the other Top cap gasket from Top cap spacer.

2. Turn Top cap upside down, then press down Head valve and Cylinder stay firmly into Top cap with your palm to make the air pressure as possible. While pressing down Head valve and Cylinder stay, insert nozzle of air duster into the hole of Top cap.

3. By blowing air into the space between Top cap and Head valve through the hole, Cylinder stay and Head valve can be separated from Top cap.

Fig. 4

By removing M4x8 Hex socket button head bolt and Knob, the inner parts can be removed from Top cap as illustrated below.
**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**

Set Knob on Top cap, with the protrusion on its back fitting in either click-stop concave portions on Top cap. Then assemble O ring 6 to the insertion hole for Change valve.

![Fig. 5 Diagram](image)

![Set Knob on Top cap, with the protrusion on its back fitting in either click-stop concave portions on Top cap. Then assemble O ring 6 to the insertion hole for Change valve.]

**Note:** When assembling Change valve to Top cap, place the notch on the front side of Top cap as illustrated below so that Change valve can engage with Knob easily.

**Fig. 6**

After mounting O ring 22 and Flat washer 19 on Rear cushion, assemble Rear cushion to Top cap, then assemble Seal ring to Top cap.

![Fig. 6 Diagram](image)

**Fig. 7**

Before assembling Cylinder stay and Head valve to Top cap, mount O rings to them as illustrated below, then apply such an amount of IDOFLEX grease that they are covered with a thick layer of the grease.

![Fig. 7 Diagram](image)
[3] DISASSEMBLY/ASSEMBLY

[3]-2. Top Cap Section

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

Assemble Head valve by pressing straight down into Top cap. Then assemble Cylinder stay to Top cap.

Note: Be careful not to fall down the eight Compression springs set in Top cap.

Top cap spacer and two Top cap gaskets are directional when assembled to Housing. Make sure that the holes A, B, C are aligned with the hole of Housing.

[3]-3. Driver Bit

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.

Fig. 9

Remove Driver bit by pushing it from Driver guide complete side.

After removing Rubber ring 19 (white), pull off Pin 3. Main piston and Piston cap can now be removed as illustrated below.
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)

Fig. 10

[Correct] [Wrong]

With the stepped face up

[Stepped face]

Piston cap

Driver bit

Align the flats of Driver bit with the hole of Carrier complete.

Driver bit [sectional view]

flats

Carrier complete [sectional view]

Hole for Driver bit insertion

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.

Fig. 12

Disassemble Cylinder section from Housing as illustrated below.

Remove Outer cylinder from Separator by pulling them in opposite directions.

Cylinder section can now be disassembled as illustrated below.

Separator

Cylinder

Cushion ring

Cushion guide

Front cushion assembly

Front cushion, Cushion ring can be replaced in this step.
Repair

[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.

Fig. 13

- Rubber ring 23
- O Ring 25
- Cylinder
- O Ring 30
- Cushion guide
- O Ring 12.5
- Front cushion assembly
- O Ring 11
- O Ring 12

Fig. 14

- Cylinder seal
- Outer cylinder
- O Ring 54
- O Ring 31.5
- Separator
- O Ring 45

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.

Fig. 15

- Disassemble Air motor section from the machine by hitting the end surface of Housing with mallet.
- Then remove Internal spur gear section.

- After removing Spur gear 10 (5 pcs), remove the assembly of Carrier complete and Ball bearing 6001LLU from Internal spur gear 44 by pushing it in the direction of the arrow.

- Do not remove the assembly by pushing it in the opposite direction, or the teeth of Internal gear 44 will be damaged.
**Repair**

[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**

- Remove Outer separator, Inner separator and Spur gear 21 from Air motor section.
- Remove O rings from Outer separator and Inner separator.
- Remove Rotor by tapping the drive-end of Rotor shaft.

**Fig. 17**

- Damaged or worn Blades can be replaced in this step.
  **Note:** Five Blades have to be replaced simultaneously.
- Remove Rotor from Upper drum cap using 1R045 and 1R346.
  In this step, Ball bearing 689ZZ still remains in Upper drum cap.
- Ball bearing 689 ZZ can be removed from Upper drum cap using Rotor as illustrated below.
  - O Ring 9 can be removed from the opposite side of Ball bearing 689ZZ.
[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.

Fig. 19

1. After assembling O ring 9 on Upper drum complete, put Ball bearing 689ZZ in Upper drum cap. Then, using arbor press and 1R027, press down the Ball bearing and Upper drum cap altogether on Rotor shaft until they stop.

   **Note:**
   - Apply the tapered end of 1R027 to the Ball bearing.
   - Round end of Rotor shaft has to be inserted into the Ball bearing.

   3. Rotate Rotor by hand, and check if Rotor rotates smoothly.

2. After assembling Rotor to Upper drum cap, mount five Blade to Rotor.

   It may be a little bit tight to rotate Rotor. However, this is not a trouble. The tightness is caused by O ring 9 correctly set in Upper drum cap.
Repair

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

**Fig. 20**

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

Assemble Spring pin 2.5-5 (2 pcs) to Drum. Then set Upper drum cap on Drum, with Spring pin 2.5-5 of Drum fitting in the corresponding insertion hole of Upper drum cap.

Visually check if Upper drum cap is properly set on Drum. If properly set, two holes of Drum can be seen through the sausage-shaped hole of Upper drum cap.

**Fig. 21**

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

1. Assemble Ball bearing 689ZZ to Lower drum cap using 1R027 and arbor press. Set Drum on Lower drum cap, with Spring pin 2.5-5 of Drum fitting in the corresponding insertion hole of Upper drum cap.

2. Support Drum with 1R027 at the Ball bearing 689ZZ of Lower drum cap. Then apply another 1R027 to the Ball bearing 689ZZ in Upper drum cap, and firmly assemble Upper drum cap and Lower drum cap to Drum by pressing down Upper drum cap and Drum using arbor press until they stop.

3. Assemble Spur gear 21 to the hexagonal end of Rotor shaft protruding from Lower drum cap.

4. Assemble Internal spur gear section to Air motor section, with the ribs of Internal spur gear 44 fitting in the cut portion of Lower drum cap.

5. Assemble Spring pin 2.5-5 (2 pcs) to Drum. Then set Upper drum cap on Drum, with Spring pin 2.5-5 of Drum fitting in the corresponding insertion hole of Upper drum cap.

6. Visually check if Upper drum cap is properly set on Drum. If properly set, two holes of Drum can be seen through the sausage-shaped hole of Upper drum cap.

**Fig. 20**

**Fig. 21**
Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-5. Air Motor Section

ASSEMBLING

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

Fig. 22

1. First, for easy assembling, make the following adjustment:
   Insert Driver bit into Hole A of Carrier complete.
   Then, by turning Driver bit, set Hole A vertical (or horizontal) to Ribs A of Internal gear 44.

   Note: Ribs A cannot be seen when assembling Air motor section to Housing although alignment of Ribs A with Rib B (See Fig. 23) of Housing is required.

   This adjustment will be able to know the position of Ribs A from that of Hole A.

Fig. 23

2. Hold Housing over Air motor section on 1R273.
   In order to fit Rib B (located on Grip side inside Housing) in Ribs A, while watching Hole A through Hole B of Housing, turn Housing or Air motor section so that Hole A is positioned vertical (or horizontal) to Grip.
   Put Housing down over Air motor section until it stops.

3. Make sure that Air motor section is properly assembled to Housing by measuring the depth indicated in the illustration below.
   The depth will be approximately 43.5mm if properly assembled.
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.

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

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

[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**

Magazine section can be separated from Housing by removing M5x28 Hex socket head bolt, Flat washer 5, M5 Hex nut and Hook.

**Fig. 27**

Stop ring E5 is the stopper for Pin 5 (hinge pin). Therefore, by removing this Stop ring using slotted screwdriver from the rear of Magazine complete, Pin 5 can be removed from Magazine complete, and consequently, Magazine cap complete is separated from Magazine complete.
[3] DISASSEMBLY/ASSEMBLY
[3]-7. Trigger Valve Section

DISASSEMBLING

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

Fig. 28

Remove Trigger by removing Spring pin 3-28 with 1R268. Trigger can be disassembled by removing Spring pin 2.5-16 with 1R267.

Using 1R268, remove Spring pin 3-28 (2 pcs) securing Trigger valve section to Housing.

Do not remove this Spring pin 3-28.

Fig. 29

Remove Trigger valve section from Housing by pinching Trigger valve stem with pliers, then pulling it in the direction of the arrow.

Trigger valve section can be disassembled by levering off Trigger valve guide from Trigger valve case using a slotted screwdriver.

Trigger valve case

Compression spring 3

O Ring 8
(213985-3)

Pilot valve

Trigger valve guide

O Ring 8
(213984-5)

with one side painted white for identification

O Ring 20

O Ring 13.5

O Ring 3

O Ring 2

O Ring 18

O Ring 11
**[3] DISASSEMBLY/ASSEMBLY**

**[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**

Two different kinds of O rings of size 8 are mounted on Pilot valve:

- **A** O Ring 8 (213984-5), of Nitrile rubber, with **one side painted white** for identification
- **B** O Ring 8 (213985-3), of Urethane rubber

Do not confuse these two O rings because they are not interchangeable, and be sure to mount them in position as illustrated on right.

3) 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**

- Use 1R268 as a guide jig as illustrated below.
- Strike the Spring pin 3-28 gently and repeatedly until 1R268 is pushed out from Housing.

1. Insert two 1R268’s through Housing in the groove of Trigger valve section.

2. Then insert Spring pin 3-28 from the opposite side, and fit its hole over the stepped end of 1R268.
LESSON: Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-8. Adjuster, Contact Arm Assembly

DISASSEMBLING

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

Fig. 33

Remove Contact arm cover by unscrewing M5x16 Hex socket head bolt.

Separate Driver guide section from Housing by unscrewing two M5x12 Hex socket head bolts. Then separate Contact arm assembly from Driver guide section.

Fig. 34

Put Contact arm assembly on 1R217 or the like, then remove Spring pin 2-14 (used as a stopper for Adjust shaft) with 1R266. Adjust shaft can now be removed by turning Adjuster complete.

Note: Be careful not to lose Steel ball 2.3 and Compression spring 2.

Contact arm can be removed from Stopper by turning Adjust piece 90 degrees then by pulling up through the window of Stopper.
Repair

[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.)

Fig. 36

Assemble two Chucks and Contact top to Contact arm with the open sides of the four parts on the same side. If assembled wrong way, screws cannot be fed.

Insert Pin 3.5 through Contact top, Contact arm, Chucks and Torsion spring 4, then fix them with Washer as illustrated below.
Repair

[3] DISASSEMBLY/ASSEMBLY


DISASSEMBLING

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

Fig. 37

Remove Contact arm cover from Housing by unscrewing M5x16 Hex socket head bolt. Because two Compression springs are mounted in Driver guide complete, remove Retaining ring R-24 while pressing Cup washer firmly.

Slowly remove Cup washer so that two Compression springs do not pop out. Then remove Compression spring 10, Compression spring 9 and Rubber ring 14.

Fig. 38

Remove Driver guide complete and Contact arm assembly by unscrewing two M5x12 Hex socket head bolts.

Driver guide complete, viewed from Contact arm cover side

Remove Urethane ring 4 and Pin 4.5 from Driver guide complete.

Note: Be careful not to lose Compression spring 3 mounted between Feed piston and Feeding claw.

Fig. 39

Remove Urethane ring 3 from Pin 4 and Lock pin.

Remove Pin 4. Then, pressing down Lock pin to unhook it from Driver guide complete, remove it together with Compression spring 5.

Remove Door from Driver guide complete.
Repair

[3] DISASSEMBLY/ASSEMBLY


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.

Fig. 41

By unscrewing four M5x30 Hex socket head bolts, four parts can be removed from Housing as illustrated below.

[Caution]

Do not turn Adjust cap because it is factory adjusted.

Remove O ring 25 from Inlet cap.

Fig. 42

Pipe 13 can be removed from Housing by holding the inside of the Pipe with 1R003 then by pulling off Pipe 13 together with Inlet filter.

If it is difficult to remove Pipe 13 using 1R003, remove by striking the end surface of Grip with mallet.

[Caution]

Do not clamp the outside of Pipe 13, or its outer surface will be scratched, causing air leakage.