

EASY ARM 2 Fume Extraction Adaptation for HR 600 XL Rework System

Operating instructions

Rev. 2.0

3BA00298-01



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2 General

This adaptation enables direct fume extraction at the source - in the immediate vicinity of the circuit board. A pipe positioned directly behind the heating head makes this solution compatible with all heating head sizes.

To maximize extraction performance, both channels of the EASY ARM 2 are combined.

The EASY ARM 2 is installed inside the HR 600 XL behind the bottom heater. The hose passes through an opening in the cover plate and is secured with cable ties. This defined installation ensures full HR 600 XL accessibility without the hose contacting the bottom heater. The hose length is optimized to the minimum required.

Future HR 600 XL systems will include a pre-drilled hole in the cover plate with a removable plug. Existing systems require retrofitting using a hole punch.

3 Parts and tools required

For installation on the system:

1x side cutter

1x set of Allen keys

1x screwdriver (cross or slotted)

For hose feed-through in XL sheet metal:

1x 27 open-end wrench

1x Würth hole punch Art. Nr. 0619702635

1x File for deburring

1x Drill (min. diameter 19mm) (19-20mm)

1x Cordless screwdriver

1x Drill diameter 5mm

2x Cable ties or a long cable tie (2x 6KAB178X4.8)

1x Steel ruler

1x Pencil for marking

4 Rebuild

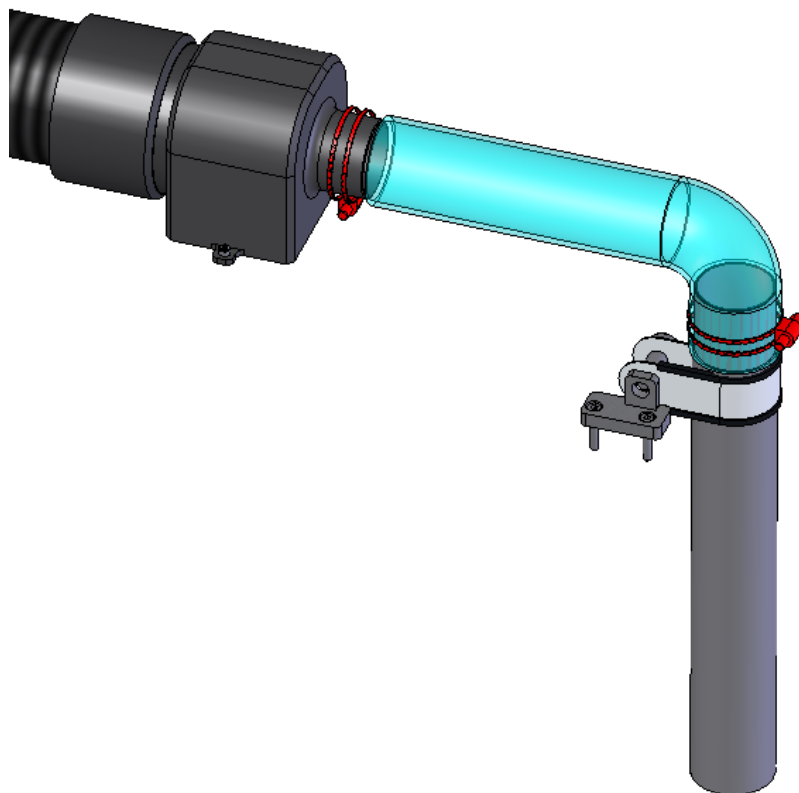


Fig. 1: Solder fume extraction extension kit



Fig. 2: Mounted solder fume extraction on the Reworksystem HR 600 XL

4.1 Mounting the suction pipe

- Remove the two screws from the heating head connection
- Insert the mounting bracket and secure with two M4x20 screws.

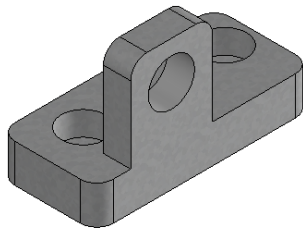


Fig. 3: Mounting bracket

4.2 Fastening the suction pipe

- Attach the suction pipe using the wide cable clamp.
- Tighten the M10x20 screw with an Allen key.
- For better access, temporarily remove the placement head connection cover if necessary.

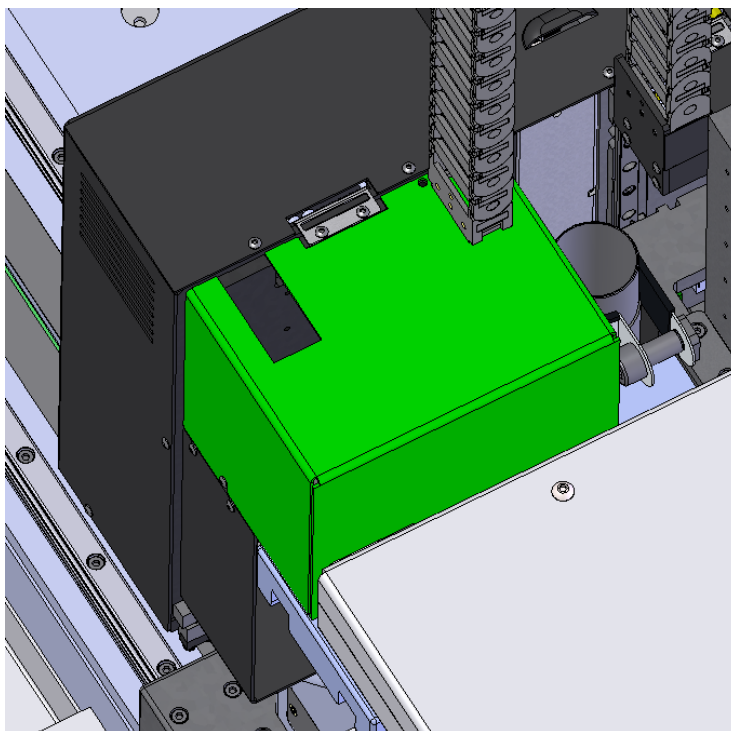


Fig. 4: Remove placer head cover

- Position the cable clamp as high as possible on the pipe to ensure the pipe sits approximately 30 mm below the heating head (when heating head is at maximum height).

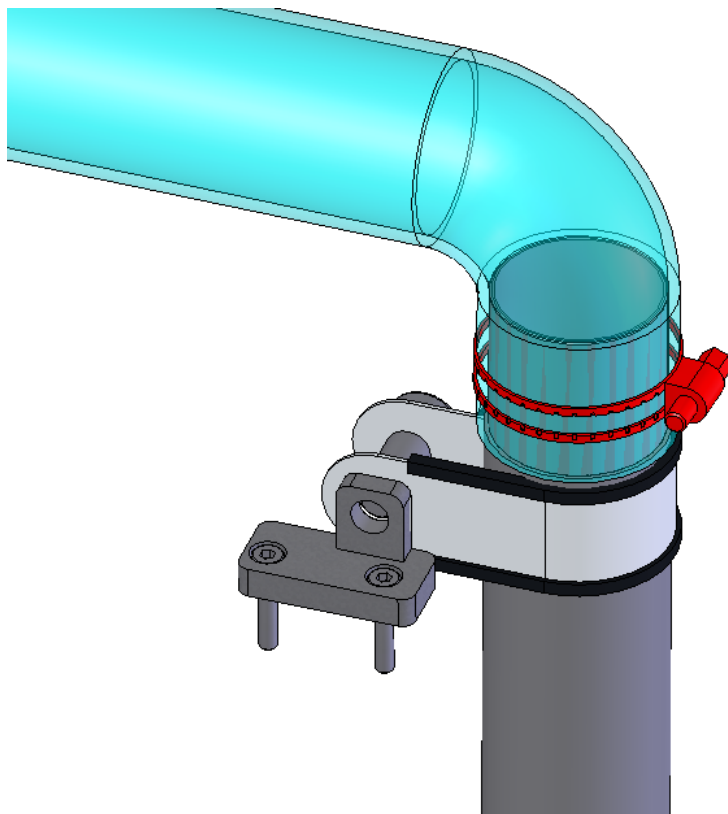


Fig. 5: Cable clamp position

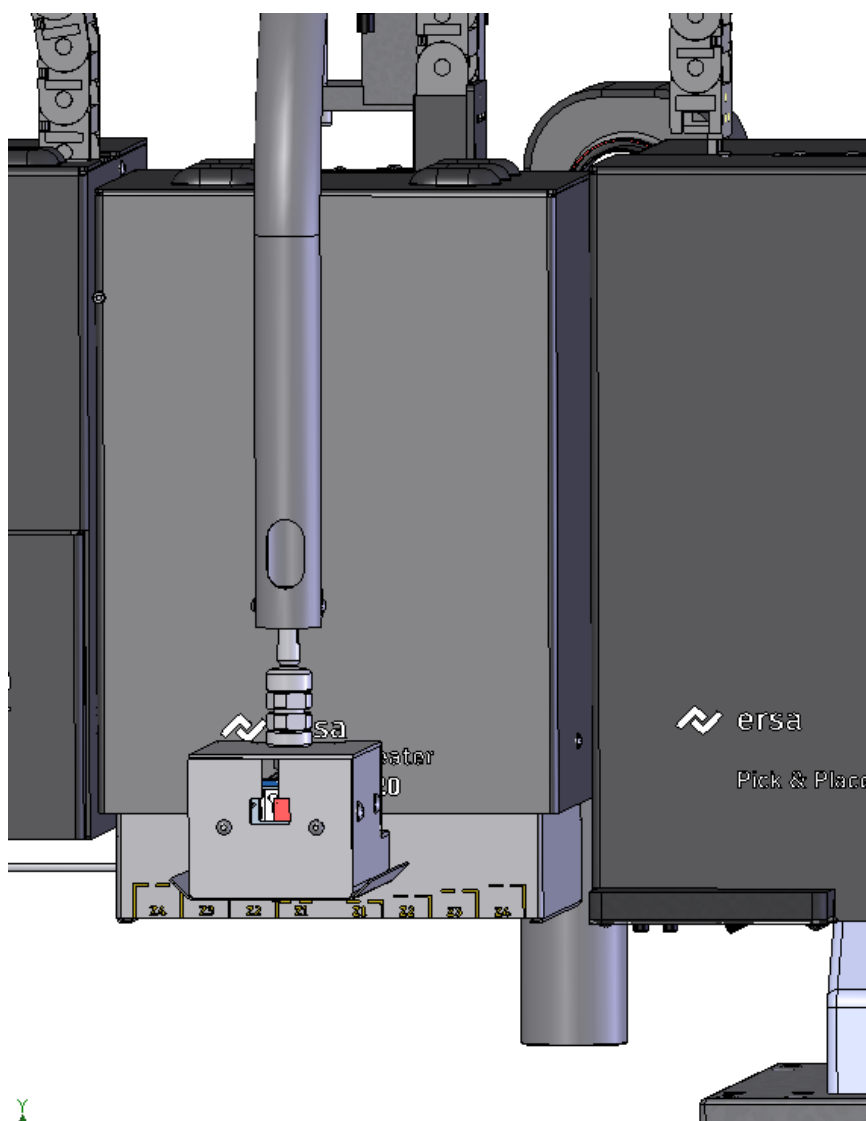


Fig. 6: Front view showing pipe height

4.3 Short suction hose installation

- Connect the 230 mm suction hose to the suction pipe.
- Secure with a pipe clamp and tighten using screwdriver.

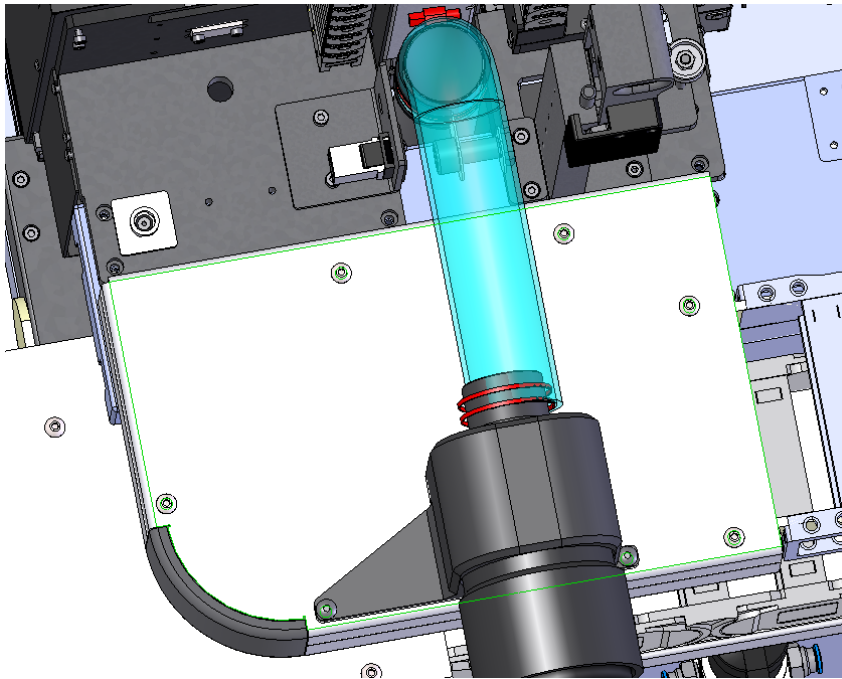


Fig. 7: Top view (placer head cover removed)

4.4 Adapter piece installation

- Secure the 3D-printed adapter piece to the sheet metal using two M5x16 screws.

4.5 Connecting the suction hose to the adapter piece

- Connect suction hose to adapter piece
- Secure with cable clamp.
- Tighten the clamp with a screwdriver carefully to avoid damaging 3D-printed component.
- Reinstall placement head cover.

4.6 EASY ARM 2 filter replacement

- Insert both fresh filters into the EASY ARM 2.

4.7 EASY ARM 2 installation location

- The EASY ARM 2 is positioned inside the HR 600 XL. Access through left side cover plate (335124). For installation, a through-hole must be punched in the top center cover plate (335134) using the hole punch.

4.8 Through-hole creation with the hole punch

- Measure through-hole size using steel ruler
- Mark with pen (refer to drawing section).

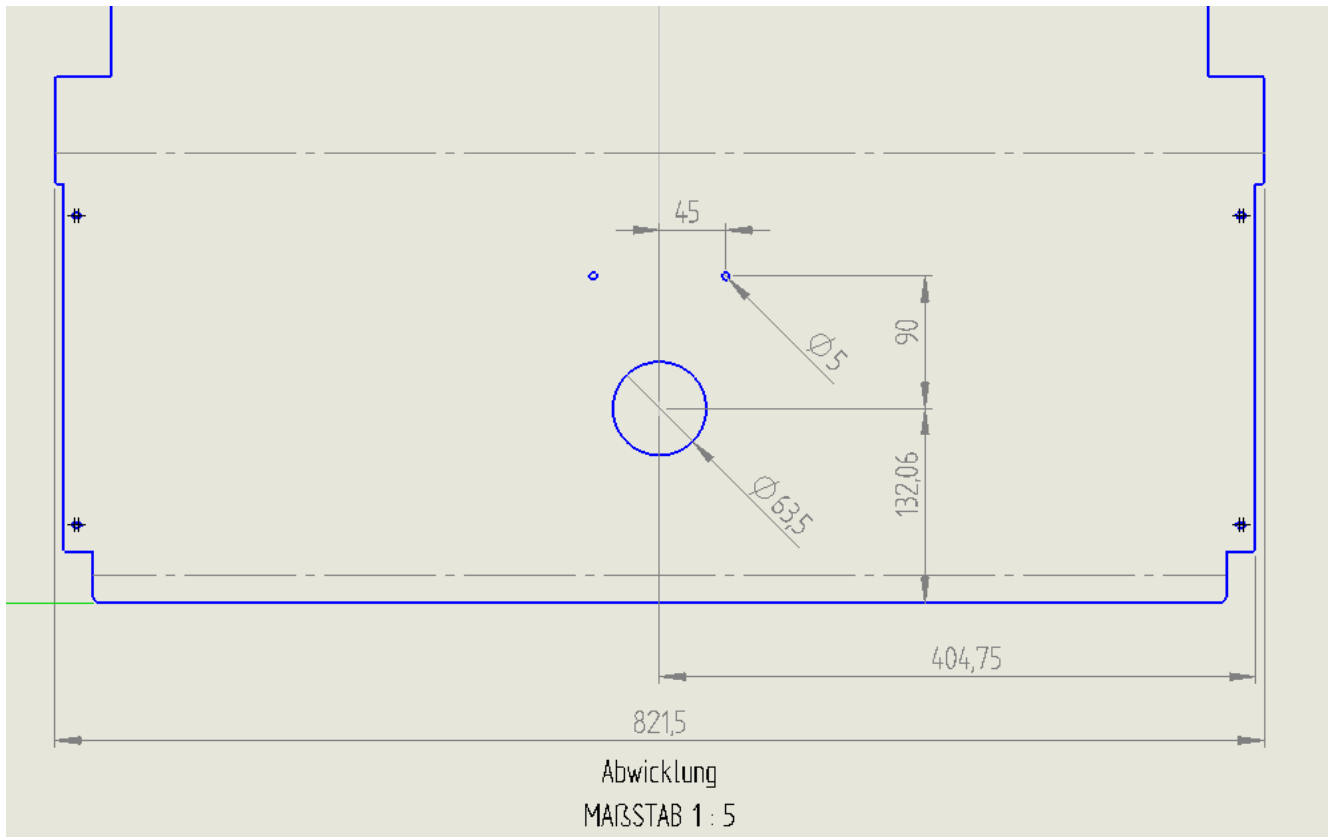


Fig. 8: Drill hole measurements and breakthrough location

Pilot hole:

- Use cordless screwdriver to drill through-hole (minimum 19 mm diameter).

Hole punch setup:

- Loosen fastening screws in plate 335134.
- Attach hole punch.

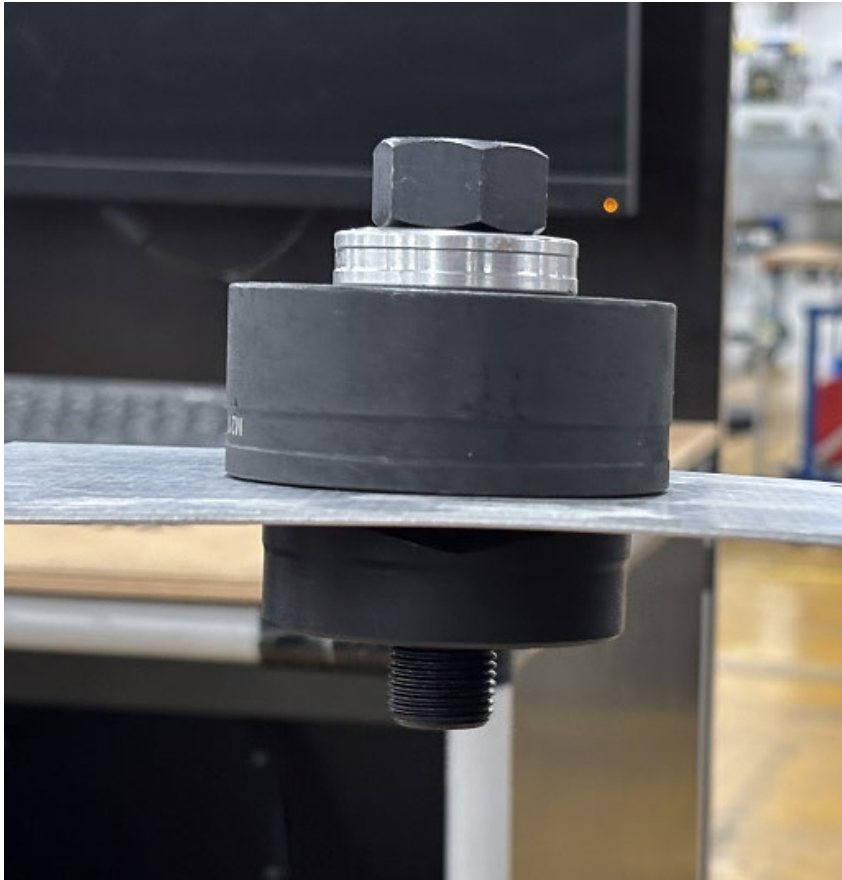


Fig. 9: Example of attaching the hole punch to the sheet metal

Punching:

- Retighten fastening screws
- Turn hole punch with 27 mm open-end wrench until removable

Finishing:

- Deburr hole with file
- Install edge protection (pre-cut with side cutters)
- Drill two 5 mm diameter holes using cordless screwdriver

4.9 Suction hoses connection

- Attach the printed adapter and screw it together with the two screws and nut. Then attach to the EASY ARM 2
- Place the EASY ARM 2 inside the HR 600 XL (approximately in the middle under the through hole)
- Thread the 2m suction hose through the through hole and insert it into both adapters (at the top at the connection to the heads and inside the XL to the EASY ARM 2 connection)

- Secure the hose with a long cable tie or 2 cable ties put together
- If everything fits correctly, the HR 600 XL can reach all positions without the hose being under tension. The hose must not rest directly on the bottom heater.

Adapter installation:

- Attach printed adapter with screws and nut
- Then connect to EASY ARM 2

Positioning:

- Place EASY ARM 2 inside HR 600 XL (centered under through-hole)

Hose routing:

- Thread 2 m suction hose through hole and connect to both adapters:
 - Top: Head connection
 - Inside: EASY ARM 2 connection

Securing:

- Use long cable tie or two connected cable ties

Verification:

- Ensure HR 600 XL reaches all positions without hose tension. **Critical:** Hose must not contact bottom heater!

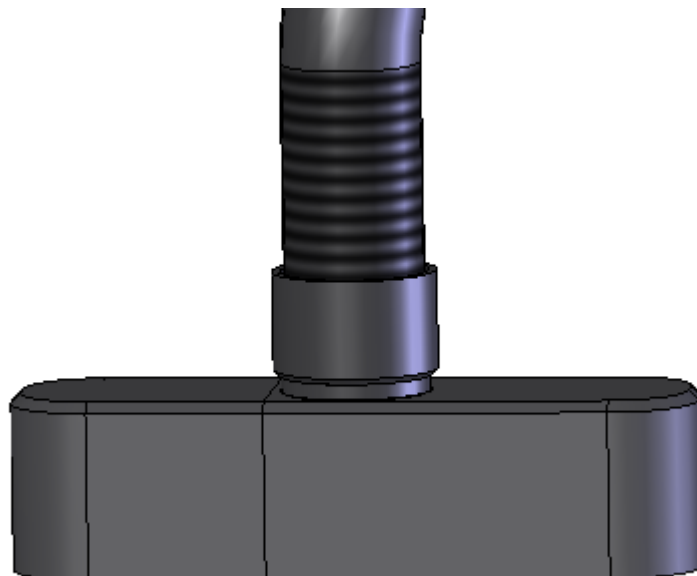


Fig. 10: Two-piece adapter

4.10 Fixing and installation location for HR 600 XL with extended bottom heating

- On an XL with extended bottom heating, the EASY ARM 2 cannot be placed inside the HR 600 XL. It is placed on the left or right behind the appliance.
- The hose must not rest on the bottom heater. Use included cord to prevent hose contact with heater in all positions.

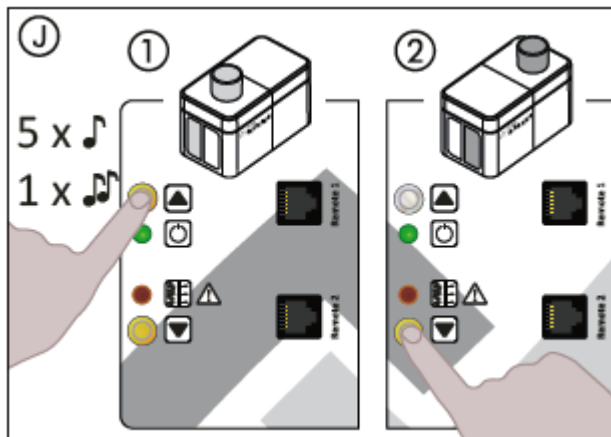
5 Operating the EASY ARM 2

- The EASY ARM 2 should always be operated at maximum speed.
- It can either be switched on manually or controlled via HRSoft2.
- For automatic control, connect one EASY ARM 2 channel to HR 600 XL using the included RJ12 cable.
- Combine both channels in the master-slave mode settings.
- Refer to EASY ARM 2 operating manual (page 10) for detailed settings

To set the master-slave mode:

The extraction device is selectively and completely controlled via display ① or display ②.

J	Here, display ① acts as the master one: Press button ① on display ① and button ② on display ②. Should display ② act as the master one, press button ② on display ① and button ① on display ②. You will hear 5 short single beeps and one double beep. The master-slave mode is enabled; settings can only be made on the display of the master page.
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6 Cleaning and maintenance

Regular Maintenance

The extraction pipe requires periodic cleaning to prevent clogging from solder fume deposits.

Cleaning Procedure

- **Preparation:** Loosen pipe clamp and pull off flexible thin hose.
- **Cleaning:** Insert included brush into extraction pipe from above, clean full length.
- **Collection:** Place cleaning cloth under pipe to catch debris.
- **Reassembly:** Reinstall all components.