

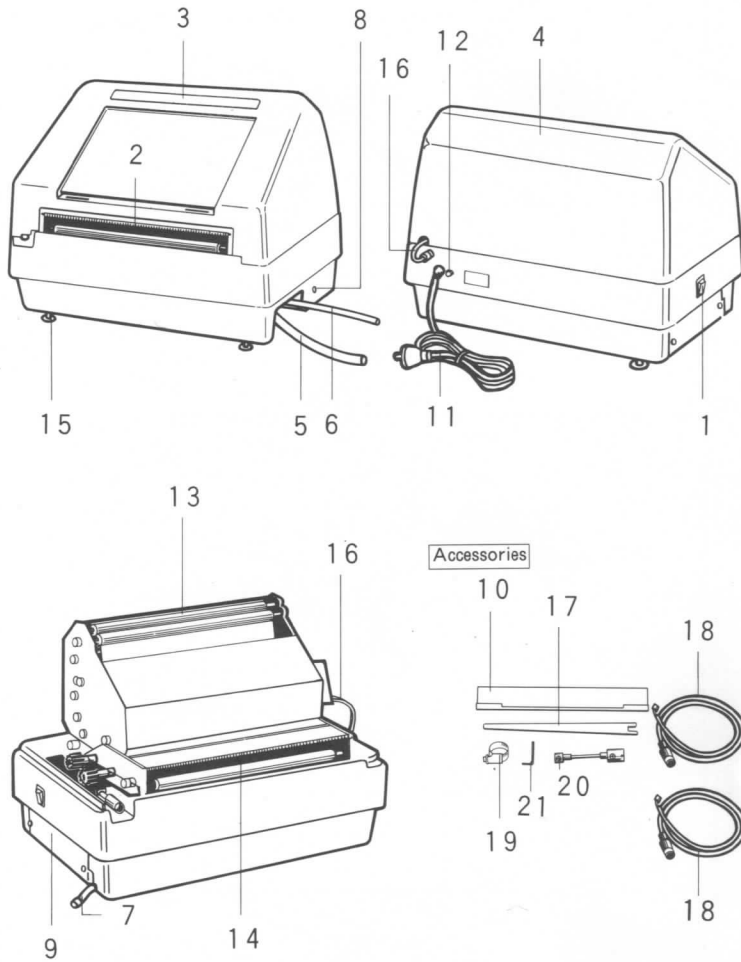
fujimoto

Operation Manual

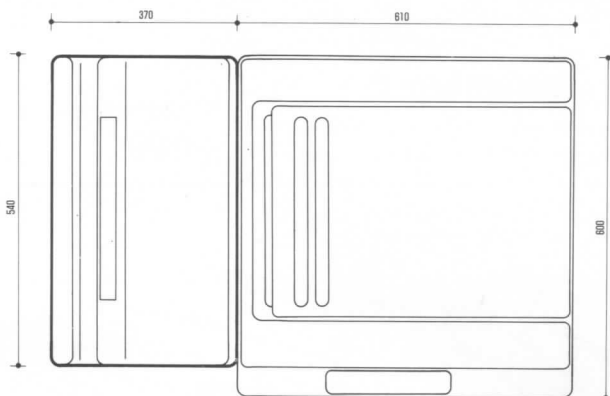
CP31

WD Module

Description



Installation Size of CP31 plus CP31 WD module:



CP31 Wash Dry Module Specifications

Function: Automatic washing and drying of processed paper from the CP31 Main Body for dry-to-dry operation.

Transport System: Roller transport

Print Size: Same as in the Main Body

Drive: Mechanical link with Main Body

Power Source: 120V-850W-60Hz or 230V-650W-50Hz

Wash Tank: Single tank

Tank Capacity: 4 liters with counter flow

Flow Rate: 2.0 liters/ minute with constant-flow valve

Wash Water: Tempered water source required

Drying Temperature: Variable from 40°C to 80°C infrared heater and fan

Dimension: 540mm (D) × 370mm (W) × 432mm (H)

Weight: 18 kgs

Other Features: Heater overload protection circuit.
Automatic cooling down of heater after process

Accessories: Fuse 10A-(1), Paper Tray-(1), Flexible Shaft w/ coupling-(1), Hexagonal wrench for 4mm screw-(1), Hose Band-(1), Cord A or B-(1), Level Adjusting Spanner-(1)

Description:

- 1) Power Switch
- 2) Paper Inlet
- 3) Paper Outlet
- 4) Top Cover
- 5) Over Flow Hose
- 6) Water Inlet Hose
- 7) Drain Hose
- 8) WD Signal Receptacle
- 9) Drawer
- 10) Paper Tray
- 11) Power Cord
- 12) Fuse
- 13) Dry Rack
- 14) Wash Rack
- 15) Level Adjuster
- 16) Dry Rack Cord
- 17) Level Adjusting Spanner
- 18) Cord A or B
- 19) Hose Band
- 20) Flexible Shaft W/coupling
- 21) Hexagonal wrench for 4mm screw

Work Space Requirement:

1. Work space suitable for easy operation and maintenance
2. Well ventilated
3. Water supply and drain facility
4. Power supply facility
5. Darkroom

Installation 1

1. Level Work Surface:

If the CP31 WD module is to be used in conjunction with the Main Body, a solid, dry, level work surface capable of supporting 150 lbs. is necessary with a minimum work surface (table) of 2' (D) × 3 1/2' (L).

2. Power Source:

120V/230V AC

3. Water Supply:

- a) 25°C to 30°C tempered water supply.
- b) Use a flow rate of 1 liter minute or more.
- c) Water inlet hose 16mm I.D. (15×21 pressure resistant hose recommended)
- d) If connected directly to tap water, be sure to use a check valve.

4. Over Flow Water:

- a) Over flow rate: 2 liter/min.
- b) Use an overflow hose with 18mm I.D.

5. Ventilation:

According to your work space environment, the darkroom should be properly ventilated and air conditioned.

Installation 2

1. Level the CP31 on your work surface and then level the WD module according to the height of the CP31.

2. Link the CP31 with the WD module.

- (1) Remove top covers of both the CP31 and WD module.

- (2) Connect the CP31 drive shaft to the WD module using the flexible shaft.

- A) Unscrew one side of the coupling on the flexible shaft. (fig.1)

- B) Insert the above coupling to the CP31 drive shaft. Do not screw in the coupling at this time. (fig.2)

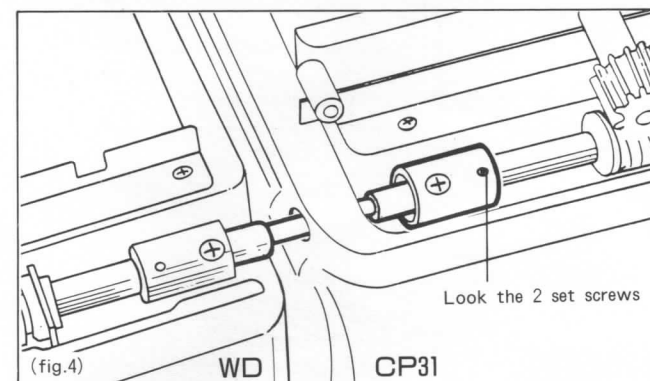
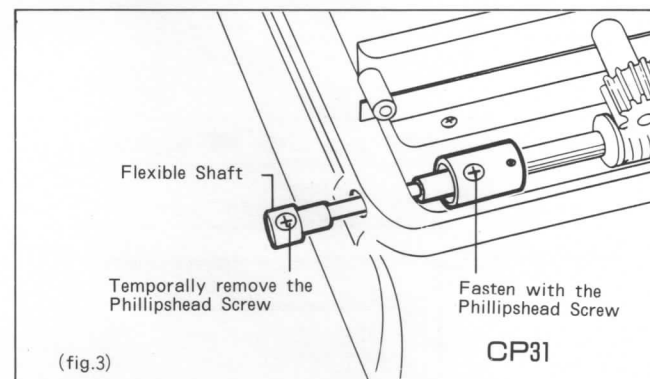
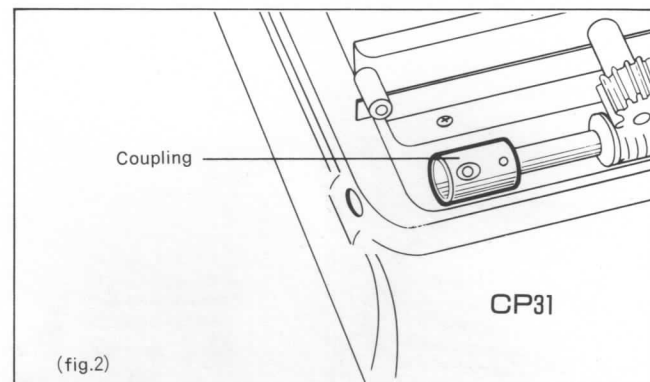
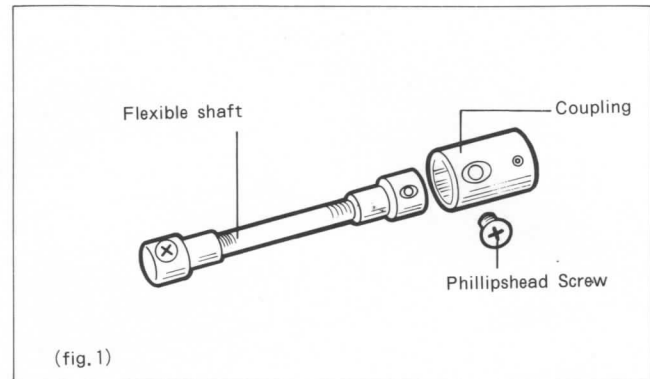
- C) Insert the flexible shaft to the coupling and fasten with the phillipshead screw. (fig.3)

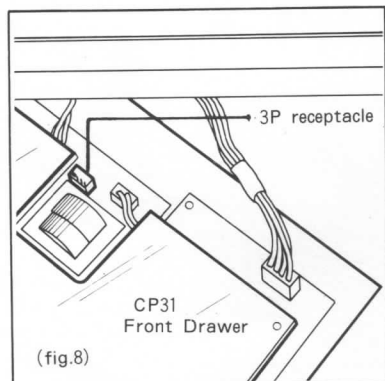
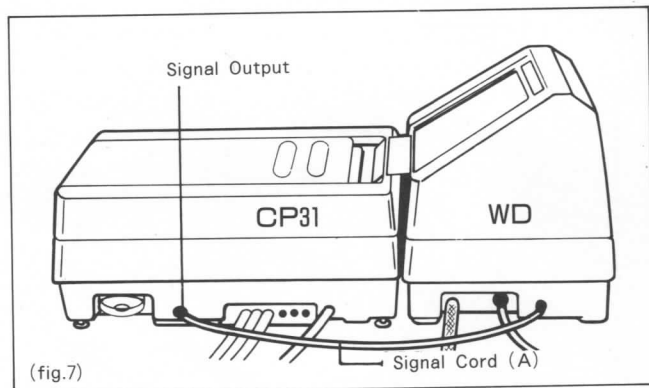
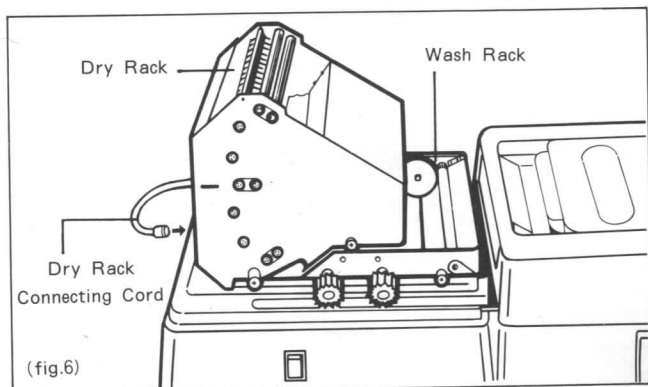
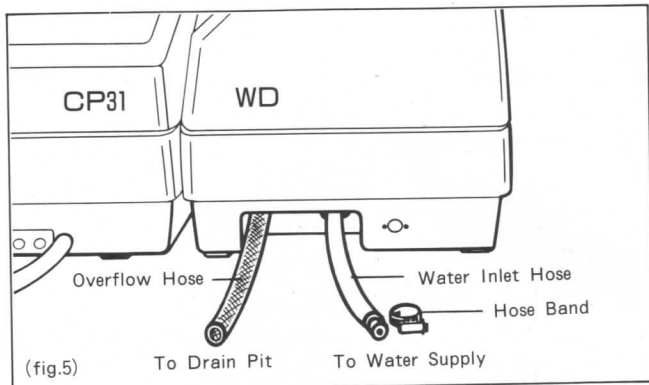
- D) Temporarily remove the phillipshead screw from the coupling fitted to the opposite side of the flexible shaft (fig.3).

- E) Move the WD module close to the CP31 main body and insert the flexible shaft from the CP31 to the coupling of the WD module and tighten it with the phillipshead screws removed in the step (4), (fig 4).

- F) Move the WD drive shaft close to the CP31 and lock the 2 set-screws on the CP31 coupling using the L-shaped wrench. (fig.4)

The above steps are very important. If the CP31 and WD module are not properly leveled, the drive shaft will not rotate smoothly. This may cause serious damage to the machine and affect print quality.





3.Plumbing: Connect the 16mm dia. pressure resistant hose (15×21) to the watering hose. Be sure to tighten the hose with the hose clamp to prevent leaks. Connect this hose to your water supply. Connect the 18mm dia. pressure resistant hose (18×24) to the WD module overflow hose and extend it to a drain hole, (fig.5) The total overflow hose should not be longer than 1 meter.

Assembly:

1.
Rack mounting (fig.6) Mount the wash and dry racks in this order. Insert the plug of the dry rack to the WD receptacle.
2.
Signal cord connection (fig.7) Link the CP31 and the WD module with the signal cord (A).
Note: When the CP31 is not equipped with an external signal receptacle (old version), pull out the front drawer of the CP-31 and insert cord (B) into the 3P receptacle, located in the drawer control panel, and the other end of the cord to the W D signal receptacle. (fig.8)
3.
Water Supply: A suitable water supply is required with a mixing valve, hot and cold water inputs and in-line-themometer. Avoid excessive water pressure, which can overtax the water feed hose and lead to leaks. A certain volume of water flow runs through a constant-flow valve. As soon as the wash tank (4ℓ) is full, overflow water flows from the overflow hose.
4.
Switch on the CP31 and the WD module. Make sure the drive shaft rotates smoothly.

5.

Drying Temperature Control and Timer:

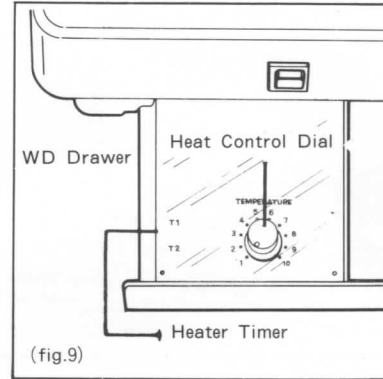
(1) Drying temperature control:

Pull out the WD drawer and set the the heat control dial according to the process in use. Refer to the following table. (fig.9 & Table 1)

(fig.9 & Table 1)

(2) Drying heater timer:

This timer is used to switch off the heater after a timing cycle is over. There are two time ranges, T1 and T2. The timer is set at T1 when shipped. Even though the heater is off by timer, the heater automatically turns on when paper is fed into dryer module. (fig.9 & Table 2)



6.

Mounting the top cover: Mount each of top covers on the CP31 and the WD module. The WD module can not ensure a perfect drying unless the top cover is replaced.

7.

Paper tray: Insert the lip of the paper tray into the exit slot on the WD module. (fig.10)

8.

Test run: Feed a test sheet into the CP31 and wait for it to cycle thru all of the baths. Use normal speed setting and recommended dryer setting. Examine the paper and aadjust the heat control accordingly. Clean up after use.

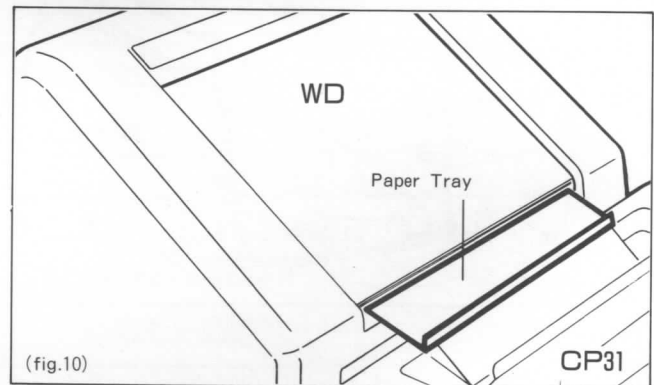
Close the water supply tap and make sure the dryer fan is off, then tun off the the CP31 WD module. Pull out the drain hose and drain out all remaining water.

Developping Process	Dial Scale
B/W Process (30 sec./bath)	7-8
Cibachrome	6-7
Neg/Pos Color Process (2 min./bath)	5-6
Neg/Pos Color Process (3 min./bath)	3-4

(Table 1)

Timer Setting	Heater	LED Display	Process
T1	Working for about 25 minutes	Green	More than 1 min. each bath (210mm/min.)
T2	- do. - for about 8 minutes	Yellow	Less than 1 min. each bath

(Table 2)



Trouble Shooting

The WD module does not work even after switching on the CP31.

- Make sure the unit is properly plugged into the A/C outlet.
- Check the power source. Is the breaker or fuse blown?
- Check the WD module fuse.
- The dryer and fan inside the WD module will start to work only after feeding a sheet of paper into CP31.

Print does not come out of the WD module.

- Paper shorter than 100mm in length will not transport.
- Paper is jammed. Remove the rack to pull it out.
- The rack gears do not engage with those of the drive shaft.

Paper surface is scratched.

- Make sure that each rack is properly mounted.
- Make sure the dryer temperature is not too high.
- Make sure there is no dirt or crystals on the roller surface.

Print comes out dirty.

- The roller is dirty. The first time the WD module is used or whenever a new process is first started, run roller transport cleanup film or waste paper before you actually begin processing.
- Wash water is dirty. Install a water filter system.

Print is not sufficiently dried.

- Dryer temperature is too low.
- The thermo fuse may have blown (tripped).