

**F-16 CHIP RESETTER OPERATING INSTRUCTIONS-**



Actual size is 3.5" x 3" x 1.25"

**MIS Associates Inc**

**[www.inksupply.com](http://www.inksupply.com)**

**Rev: 9/5/02**

## Description –

The F-16 is designed to reset the chipped cartridges on the MIS Continuous Flow Systems for Epson printers. It works without having to lift up the cartridges. And it works on MAC's and PC's and it will reset the printer even if the Red "out of ink" light is on. These are the major features of the F-16.

- Designed as a companion device for Continuous Flow Systems on Epson desktop printers.
- All reset operations are done without having to lift the cartridges out of the printer.
- Resets the cartridge chips on most Epson desktop printers that have a parallel port.
- It is computer independent, and will work whether you print from a MAC or a PC.
- Works on all operating systems, Windows, Mac, Linux, Unix, Sun, and all others.
- Resetting the chips is as easy as pushing the button on front panel, no software to load.
- Resets the chips, even if the out of ink red light is on steady or blinking.
- Works on multiple printers with the same model number. No serial numbers required.

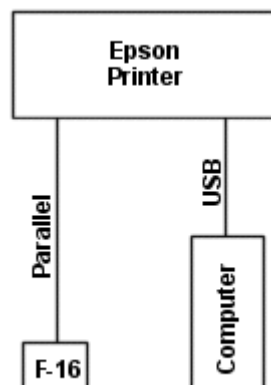
## Compatibility –

The F-16 works with the following Epson printers; C60, 777, 780, 820, 870, 890, 1270, 1280, 1290 and 2000P. It is computer independent and will work with any computer or operating system.

## Operation –

### 1. Connect F-16

With the power off to both the printer and the computer, connect the F-16 to the printer using the supplied printer cable, and connect the computer to the printer using a USB Cable. Connect the power plug to the F-16. Turn on computer and printer. If you have not operated the printer with a USB cable before, then change your printer port setting to USB. You may be asked to insert your CD Rom containing the printer driver.



## 2. Configure F-16 - Normal Conditions

Make sure the printer is working properly by making a test print or printing something that you have printed before. The 2 red lights on the F-16 should be on. This means that the F-16 has not been configured.

### **Note: If there is a red light on printer -**

If you have just installed a new CFS unit and you have a red light on steady on your printer, this is a problem the F-16 will not correct. A printer red light not caused by an out of ink condition is caused by a defective or corrupted cartridge chip. This can be caused by static electricity or by the cartridges not being seated all the way down. In any event, the F-16 will not turn the red light off. Best remedy is to reseal the CFS cartridges and cycle the printer power off and on. If the red light persists, then remove the chips from the CFS cartridges and replace them with known good chips. MIS will replace damaged chips, no charge or you can get them from non-empty Epson cartridges.

Assuming there are no red lights on the printer, press the EXECUTE button and release it in less than 2 seconds. This causes the F-16 to identify the printer model to which it is attached and configure itself to reset the ink levels for that specific printer model. When the F-16 has been configured it will print a verification page on the printer and the READY light will be ON and the STATUS light will be OFF. Make sure you have paper in the printer before doing the configure process.

## 3. Configure F-16 with Out of Ink Red Light On at Printer

If your printer ran out of ink before you were ready to install the F-16, then follow this procedure to Configure the F-16. If the red light is not caused by an actual “out of ink” condition, then refer to the note in paragraph 2.

The 2 red lights on the F-16 should be on, indicating that the F-16 has not been configured. If the printer has an “Out of Ink” light on follow this process...

- a). Press the EXECUTE button and release it in less than 2 seconds. The printer will respond with a protocol error and you will not get a print verifying that the F-16 has been configured. Plus the F-16 lights will be flashing.
- b). Turn off the printer, unplug the printer cable coming from the F-16 and disconnect the F-16 power. Wait 15 seconds, then plug the F-16 power back in, re-attach the printer cable, and turn on the printer power. The Out of Ink light will still be On, but the F-16 lights should not be blinking, the Ready light should be on and the Status light should be off. This indicates that the F-16 is now configured. You can not proceed until you have completed the

configuration of the F-16. If you did not get the Ready light on and Status light Off, repeat this step.

- c). With the F-16 configured, hold the Execute button in until the Status light turns on, keep holding the Execute button until the Status light on the F-16 goes out. Then release the Execute button. If the reset was successful the Ready Light will blink 5 times.
- d). Wait for the printer to finish its movements. Then turn the printer off, wait for 20 seconds, and turn it back on. When it comes back on, the printer "out of ink" red light should be off. If it is not repeat this procedure.

#### **4. Resetting the Chips – Normal Conditions**

When the Epson monitoring system indicates that you are almost out of ink (blinking red light on printer) or you just want to set the chips to full, then follow this procedure. If you think the red light on your printer is caused by something else, then refer to the note in paragraph 2.

To reset the chips to full, after the F-16 has been configured, press the EXECUTE button and release it in less than 2 seconds. The F-16 verifies that the printer is the correct model then sends the ink reset commands. After the ink reset commands are sent, a verification message is printed. Make sure you have paper in the printer before you push the EXECUTE button.

#### **5. Resetting the Chips - with Out of Ink Red Light on Printer**

If you have a steady red light on your printer due to running out of ink, then follow this procedure. If the red light is caused by something else, then refer to the note in paragraph 2 above.

If the F-16 is configured properly (Ready Light On and Status Light Off), but the printer red light is on indicating that there is an "out of ink" condition, follow these steps to reset the chips.

- a) Hold the Execute button in until the Status light turns on, keep holding the Execute button until the Status light on the F-16 goes out. Then release the Execute button. If the reset was successful the Ready Light will blink 5 times.
- b) Wait for the printer to finish its movements. Then turn the printer off, wait for 20 seconds, and turn it back on. When it comes back on, the printer "out of ink" red light should be off. If it is not, repeat this procedure.

#### **6. Understanding the F-16 Status Lights**

### **STATUS TABLE**

READY Light	STATUS Light	State of F-16	Comments
OFF	OFF	No Power	If power is supplied and both LEDs are off, try disconnecting the F-16 from the printer then re-applying power to the F-16 before reconnecting it to the printer.
ON	ON	Not Configured	The unit is currently not configured. Once configured, the unit can not be reconfigured for another printer model. If the LEDs are dim, power is not applied, leakage current is coming from the attached printer.
ON	OFF	Configured	The F-16 is configured. DO NOT attempt an Ink Out reset on another printer model. You may damage the printer.
OFF	ON	FAULT	This state should not persist. Disconnect the unit from the printer, remove the power, wait 20 seconds, then re-apply the power. If the condition persists return the unit for evaluation.
5 Flashes	OFF	Command Completed	The unit has completed the command. Note: After completion of some commands a page may be printed or in the case of an Ink Out command you must cycle the power on the printer to complete the reset sequence.
ON	Quick Double Flash	Partial Ink Out reset sent	Indicates that a partial Ink Out command has been sent. Turn the printer off. Wait 15 seconds. Turn the printer on. Press the EXECUTE button until the Status LED turns ON then OFF. Release the button. The remainder of the reset command will be sent. Turn the printer OFF again, wait 15 seconds, then turn the printer on. If the ink out condition did not clear, follow the instructions in note #1 at the bottom of this table.
Lights Flashing in sync	Lights Flashing in sync	Printer Protocol Error	Make sure the printer is connected and that both the F-16 and printer have power. If you were just printing from or connected to a Windows system, turn off the printer and disconnect the USB cable, if attached. Wait 15 seconds, then power the printer on and try again.
Alternate Flashing (Rail Road Crossing)	Alternate Flashing (Rail Road Crossing)	Abort Condition	Either the EXECUTE button is stuck, you have attempted to reset an Ink Out condition with an F-16 which is not configured or another error requiring you to power down and/or inspect the unit has occurred.

**Note 1:** If the out of ink reset does not occur as it should there may be data stuck in the printer buffer. To clear the buffer, turn off the printer, remove the USB cable from the printer, then disconnect the power cord from the power outlet. Do the same with the F-16. Disconnect it from the power and from the printer. Wait one minute and then plug the printer power back in and reconnect the F-16. Leave the USB cable unplugged until you have achieved the reset. Go back to the quick double flash section and repeat the procedure.

**Technical Support –**

This is a new product for MIS. If you are having problems, the first thing to do is check the MIS website for technical support information on the F-16. Go to the CFS page, find the F-16 in the gray menu box, and click on it to get to the F-16 page. Look for the FAQ section (coming soon).

If the F-16 FAQ page does not answer your question, please send an email to [support@inksupply.com](mailto:support@inksupply.com). We will try to answer your question promptly. Be sure to use F-16 Question as the subject. We will be giving these messages priority.

If the website and the email information do not solve the problems, then call us, preferably in the morning at 800-445-8296 or 248-391-2163. We are on Eastern time.

**Normal Use Suggestion –**

Run your printer with the USB cable connected between computer and printer. Keep the F-16 plugged in to the printer and keep the power connected. When you think you need to reset, wait for the printer to be idle, then press the EXECUTE button once for about one second.