

Model : Finisher-D1**Ref. No.** : FF-T01-W-000100-01**Date** : December 22, 1999

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Location : FINISHER CONTROLLER PCB ASSEMBLY**Subject** :
• MASTER EP-ROM (IC105) AND SLAVE CPU (IC121) VERSION UPGRADE (VER. 10)
• SLAVE CPU (IC121) TYPE CHANGE**Reason** :
• In conjunction with the version integration of Finisher-D1 Saddle Finisher-D2, the version has been upgraded to Ver. 10.
• Slave CPU (IC121) has been changed from a flash type to a 1 time type. In addition, this component has been made a mask type.

Master EP-ROM version modification history

Serv. Info. No.	Ver. No.	Description	Date
FF-T01-W-000100-01	Ver. 10	Versions integrated	December 22, 1999

Slave CPU version modification history

Serv. Info. No.	Ver. No.	Description	Date
FF-T01-W-000100-01	Ver. 10	Versions integrated	December 22, 1999

Details : Master EP-ROM Ver. 10 changes

No.	Item	Description
1	Versions integrated	The integration of the versions for Finisher-D1 and Saddle Finisher-D2 do not involve any changes in the ROM operation.

Slave CPU Ver. 10 changes

No.	Item	Description
1	Versions integrated	The integration of the versions for Finisher-D1 and Saddle Finisher-D2 do not involve any changes in the ROM operation.

- Servicing** : 1. Slave CPUIC121 has been changed from a flash type to a 1-time type. In addition, this component has been made a mask type. When the slave CPU is converted to both a 1-time type and mask type, any attempt to download programmes would damage the chip. Therefore, the download J130 has been deleted from the Finisher controller PCB assembly, in order to prevent programme downloads.
2. As the slave CPU type has been changed, there are now three types of slave CPU. They are identified as follows.

Slave CPU type	Identification
Flash type	The yellow seal on the slave CPU bears the part number FH4-1352.
1 time type	The yellow seal on the slave CPU bears the part number FH4-1386.
Mask type	The part number FH4-1388 is imprinted on the slave CPU.

3. There are two slave CPU versions, Ver. 4 and Ver. 10. The version differs according to the type. The flash type and 1 time type are Ver. 4, while the mask type is Ver. 10. Further, in the case of the flash and 1-time types, the master EP-ROM is the old version, and in the case of the mask type, the master EP-ROM is the new version. (See below.)

Slave CPU		Master EP-ROM version
Type	Version	
Flash type	Ver. 4	Old version (Ver. 4) (Ver. 6)
1 time type	Ver. 4	Old version (Ver. 6)
Mask type	Ver. 10	New version (Ver. 10)

4. Ver. 4 slave CPU and Ver. 10 master EP-ROM must not be used together, and Ver. 10 slave CPU and Ver. 4 master EP-ROM must not be used together.
- If the slave CPU is a flash type, it may be upgraded by downloading. Therefore, the following procedure should be used to upgrade the master EP-ROM and the slave CPU at the same time.
 - 1) Turn off the power to the copier main unit and replace the Ver. 10 master EP-ROM.
 - 2) Turn on the power to the copier main unit.
 - 3) E505 will flash. Follow Step 2 in the Saddle Finisher-D2 Service Manual (FY8-13G9-000), page 5-72, 3. E505 lit, checksum error, and clear the error.
 - 4) Download Ver. 10 to the slave CPU.
 - If the slave CPU is a 1-time type, it cannot be upgraded by downloading. A Finisher controller PCB assembly with a flash type or mask type is to be used. However, if the Finisher controller PCB assembly has a flash type mounted on it, the master EP-ROM and slave CPU need to be upgraded at the same time. In that case, use the procedure described above to perform the upgrade.

Service Parts :

No.	Description		Part number	Q'ty	Stock	Inter-change-ability	PC. ----- Stock date
1	Old	IC, M27C4002-80XF1, EP-ROM	FF3-3634-000	1→0	C	↓ ↑ Yes No ↓ ↑	T90-1
	New	IC, M27C4002-80XF1	FF3-3749-100	0→1	D		

Affected machines:

Upgrade Ver. 10

F24-9411 (115V) NLF13559 and later

F24-9421 (220/240V) ULF06368 and later

Download J130 deleted

F24-9411 (115V) NLF11645 and later

F24-9421 (220/240V) ULF05262 and later