

Model : Saddle Finisher-D2

Ref. No. : FF-T01-W-000090-01

Date : October 29, 1999

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Location : MAIN UNIT INTERIOR (2) / PUNCH ASSEMBLY / FINISHER CONTROLLER PCB

Subject : REDUCTION OF SOUND WHEN SIDE REGISTRATION OF PUNCH UNIT IS IN OPERATION

Reason : To communicate field handling methods to reduce the noise caused when the side registration of the punch unit is operated.

Details : <Symptom>
When copying is done in punch mode, rumbling noise is caused when the punch unit drives the side registration.

<Cause>

The stepping motor (M17) is the source of vibrations, which cause the noise.

1. Vibrational noise from the stepping motor alone.
2. Vibrational noise from the stepping motor's gears and rack.
3. Slight noise from the punch slide unit.

<Factory measure>

1. As procedures to handle causes 1 and 2, the versions of the master ROM and slave CPU will be upgraded along with a change to the stepping motor unit.
 - 1-1. The stepping motor unit will be changed as follows. This change will serve to keep stepping motor (M17) vibration in check.
 - The hardness of the stepping motor's (M17) damper rubber will be lowered, resulting in absorption of vibrations (Fig 1).
 - A vibration-absorbing paint will be added to the stepping motor's (M17) mount plate (Fig 1).

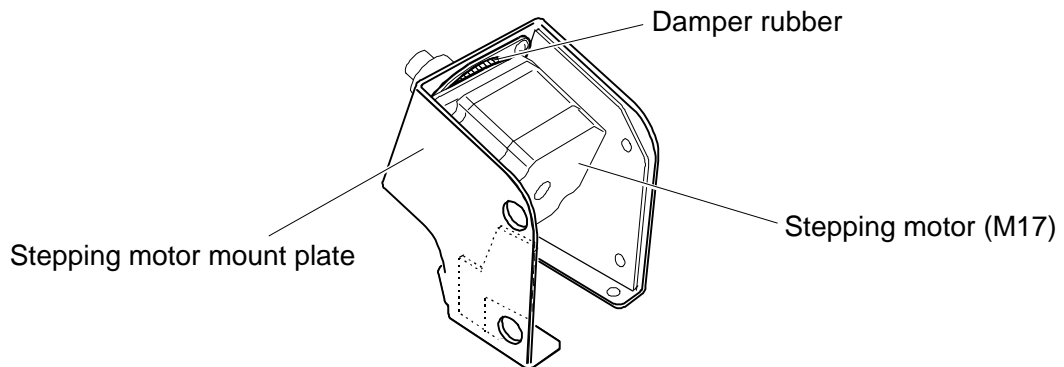


Fig. 1

1-2. The master ROM (IC105) and the slave CPU (IC121) will be simultaneously changed from Ver. 3 to Ver. 4.
 This change will lower the electric current of the stepping motor (M17), keeping stepping motor vibration in check.

2. As the procedure to handle cause 3, foam material will be added to 5 locations on the punch slide unit punch left cover (Fig 2). This change will reduce the slight noise in the punch slide unit.

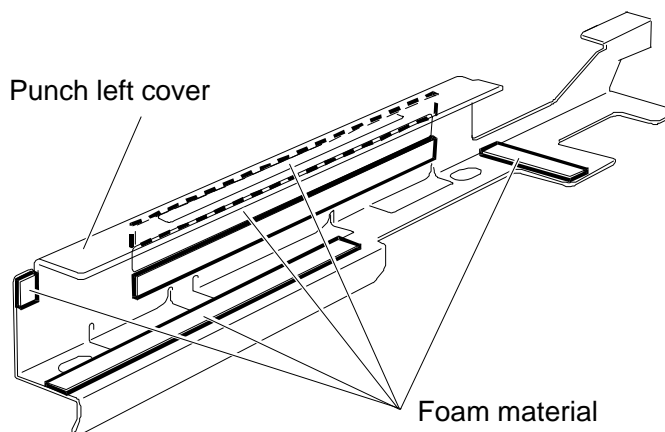


Fig. 2

- Servicing** : If the above symptoms occur, put the following 3 procedures into effect.
1. Replace the stepping motor unit with a new one.
 2. Replace the punch slide unit punch left cover with a new one.
 3. Simultaneously upgrade the master ROM (IC105) and the slave CPU (IC121) from Ver. 3 to at least Ver. 4.

Points to Note When Servicing:

1. The combination of the 3 procedures mentioned above relates to 3 factory operations. Please note that the range of numbers of machines which correspond to each of these is fixed (See Table 1).

Product order	Combination of procedures		
	Range of operation for 1,2,3	Range of operation for 1,2	Range of operation for 1
F24-9511-000 120V 60Hz	NLJ00001 ~ 00707	None	NLJ00708 ~ 01259
F24-9521-000 220/240V 50Hz	ULJ00001 ~ 00318	ULJ00319 ~ 00371	ULJ00372 ~ 00727

Table 1

2. Regarding the master ROM (IC105) and the slave CPU (IC121)
 - 2-1. Currently, Ver. 4 and Ver. 10 are the 2 types which correspond to the occurrence of the above symptoms. Ver. 10 is the newest.
 - 2-2. Contact will be made in the form of a separate service information publication regarding information on service parts related to Ver. 4 and Ver. 10.
3. Refer to Service Manual FY8-13G9-000/CHAPTER 3 MECHANICAL SYSTEM/H. Punch Unit (from page No. 3-40 to 3.47) when replacing the punch left cover.

Service Parts :

No.	Description		Part number	Q'ty	Stock	Inter-change-ability	PC. ----- Stock date
1	Old	MOTOR, STEPPING, DC24V	FH6-1648-000	1→0	A	↓ ↑ No Yes	Q12-14
	New	MOTOR, STEPPING UNIT	FG6-3324-000	0→1	D	↓ ↑	Mid. Nov.
2	Old					↓ ↑	Q45
	New	COVER, LEFT	FF5-8643-000	0→1	D	↓ ↑	Mid. Nov.

Affected machines:

1. Affected Machines by Factory Operation

3 operations are being put into effect at the factory, but not all at the same time due to factory timing.

The affected machine numbers are shown in Table 2 by individual operation.

Product order	Change to stepping motor unit	Change to punch slide unit punch left cover	Master ROM/Slave CPU version upgrades
F24-9511-000 120V 60Hz	NLJ01260 and later	NLJ00708 and later	NLJ00708 and later
F24-9521-000 220/240V 50Hz	ULJ00728 and later	ULJ00372 and later	ULJ00319 and later

Table 2

2. Machines which have had all three operations performed at the factory.

F24-9511-000 (120V 60Hz): NLJ01260 and later

F24-9521-000 (220/240V 50Hz): ULJ00728 and later