

Model: Cassette Feeding Unit-M1
Cassette Feeding Unit-L1
Cassette Feeding Unit-S1
Cassette Feeding Unit-R1

Ref. No. : FF-T01-A1-000023-UK1

Date : November 12, 2001

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Location: Paper Pick-up Assembly

Subject: Countermeasures Against Lift-up Failure at Pickup from Upper Cassette

Reason: This bulletin notifies how to correct lift-up failure of the lifter in the upper cassette.

Detail: <Symptom>

There is a possibility that the upper lifter could not ascend or a message 'load paper' could be indicated even though the paper is loaded in the cassette.

<Cause>

Since the movement of the lifter arm claw (FB4-5350) cannot be securely controlled by a boss of the frame cover (FB4-2816-000 for S1/R1, FB3-2844-000 for M1/L1), the lifter arm claw of the upper lifter moves too much in the thrust direction [Figure 1]. Then, the lifter arm claw fails to engage with the proper tooth of the ratchet gear (FB3-2856). (See Figure 2 on the next page for the ratchet gear details.)

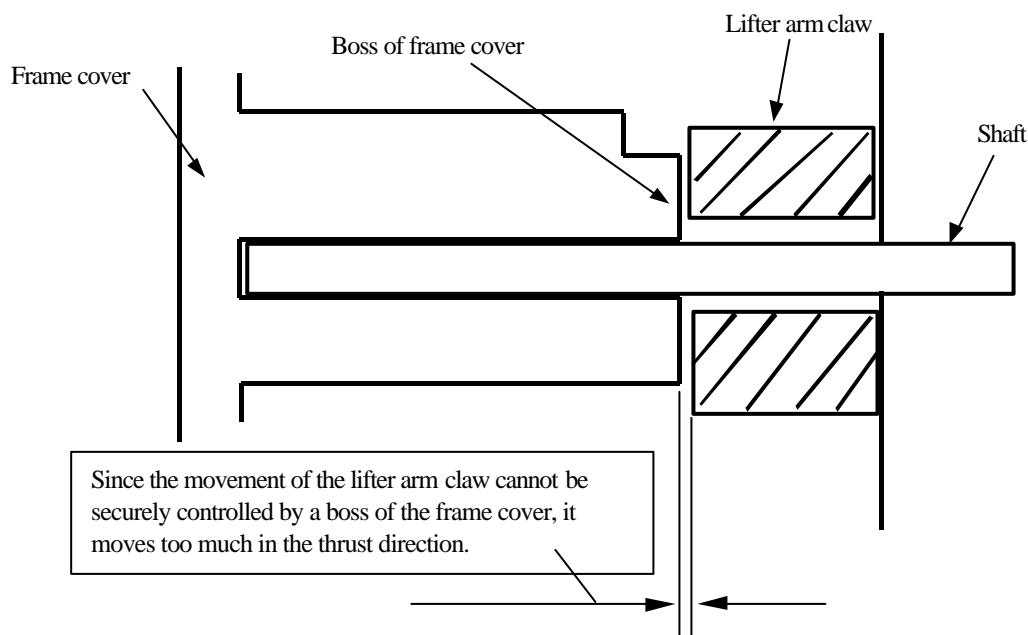


Figure 1 Sectional view

In the normal operation, the lifter arm claw engages with the same tooth of the ratchet gear as the lifter lock claw (FB3-2868) does [Figure 2].

The locking feature (A) of the lifter lock claw is disengaged after the cassette is inserted, and then the lifter lock claw engages with the ratchet gear. The lifter arm claw moves up and down around the shaft by the rotation of the eccentric cam and lifts up the ratchet gear.

On the other hand, with a bigger movement of the lifter arm claw in the thrust direction, a balance between the lifter arm claw and the lifter lock claw will be undone, causing the upper lifter to not ascend.

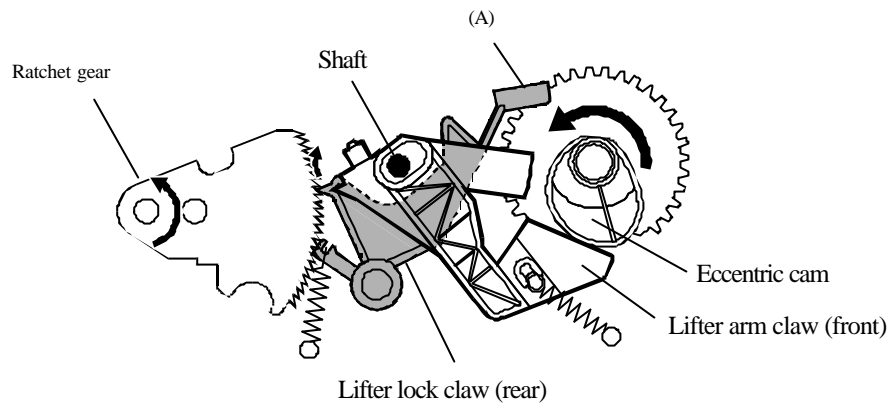


Figure 2

<Factory Measure>-

To reduce the gap at the lifter arm claw in the thrusting direction, the shaft in the pickup frame has been fastened onto the frame cover with a screw [Figure 3].

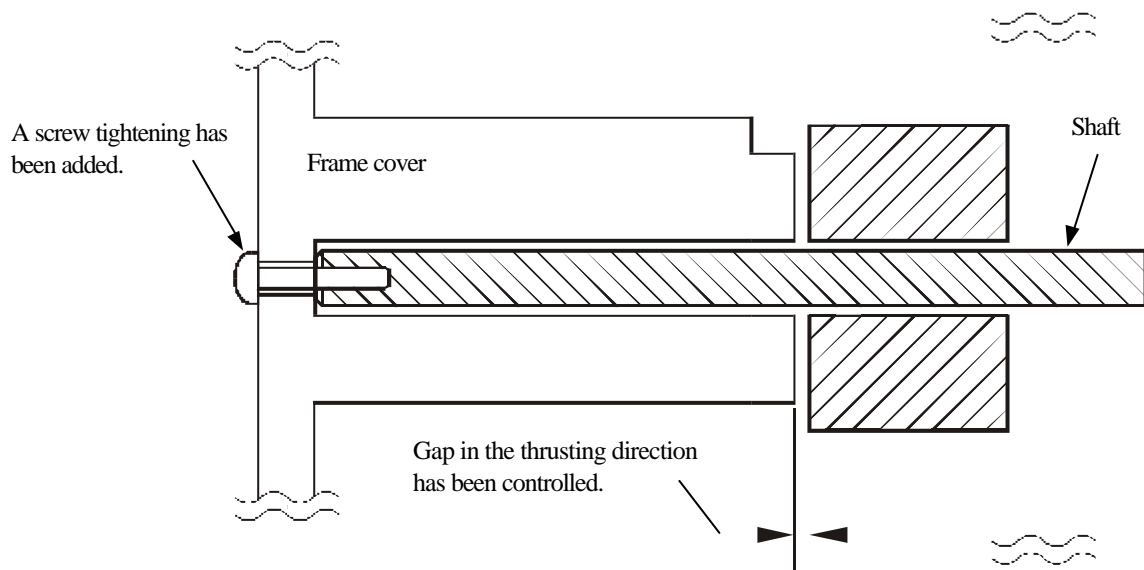


Figure 3 Sectional view

Servicing Work:

To reduce the gap at the lifter arm claw in the thrusting direction, follow the procedure below.

< Installation Procedure for Corrective Action >

1. Prepare one piece each of the grip ring and the washer.

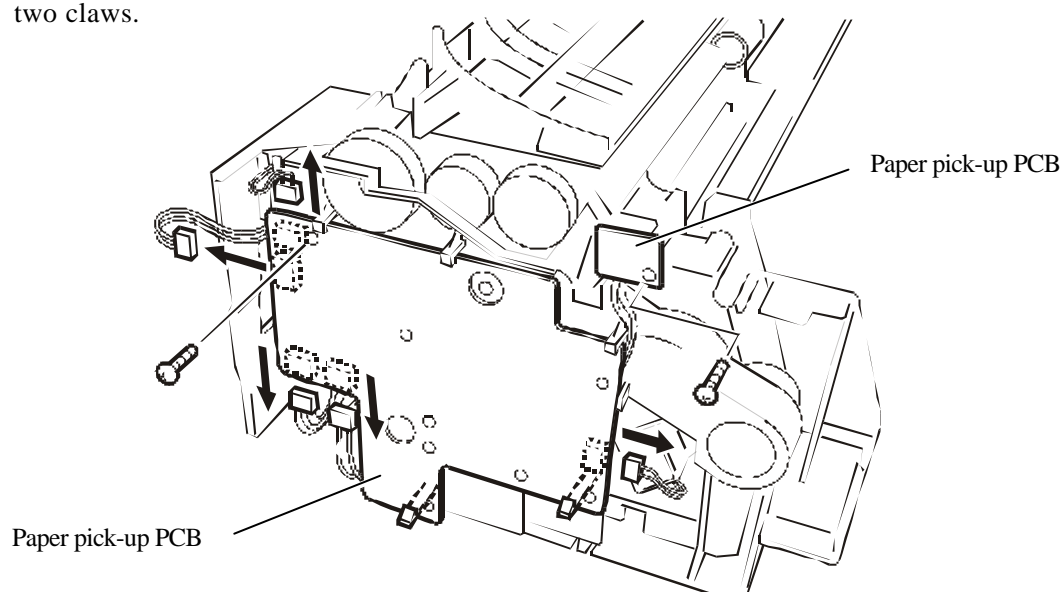
1) Grip ring (XD2-2100-602)

2) Washer (XD1-1106-235) (mm)

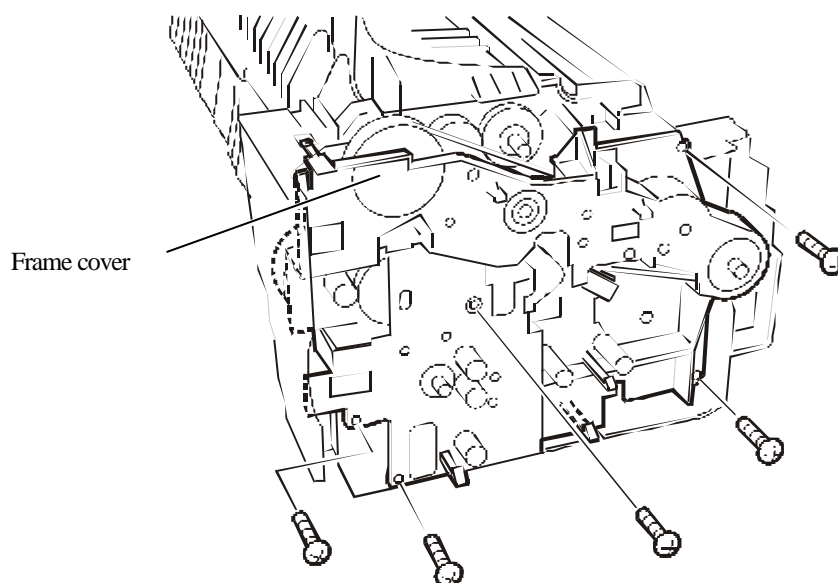
Inner diameter	Outer diameter	Thickness
$\phi 6.2$	$\phi 12$	0.5

2-1) Remove the paper pick-up assembly.

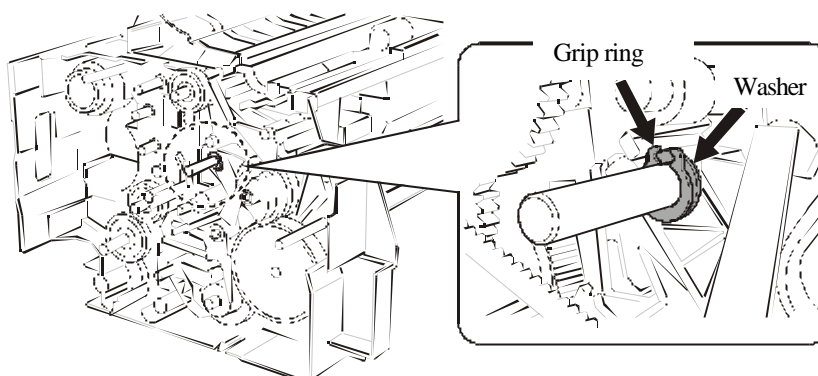
2-2) Remove the four screws and unplug the five connectors. Remove the two PCBs while releasing the two claws.



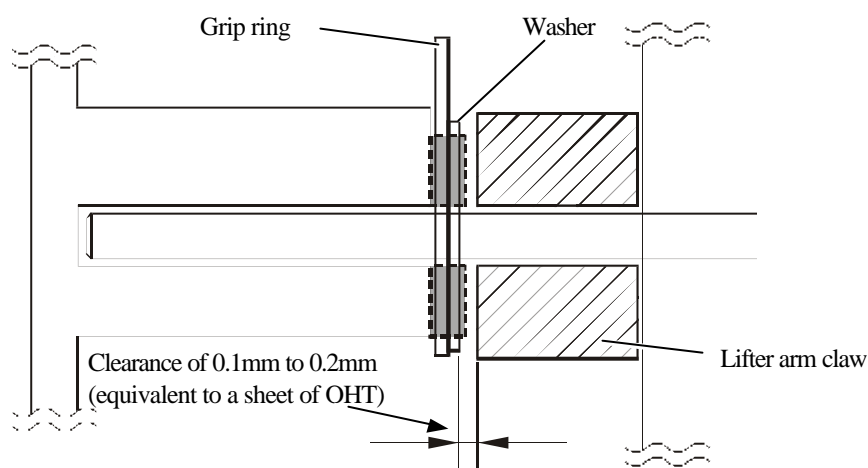
3. Remove the five screws. Remove the frame cover while releasing the two claws.



4-1) Install the washer and the grip ring to the shaft of the arm claw for the upper lifter.



4-2) At installation, make sure that a clearance between the lifter arm claw and the washer should be 0.1mm to 0.2mm. (The grip ring should be pressed against the washer while inserting a sheet of OHP. After installation, the OHP must be removed.)

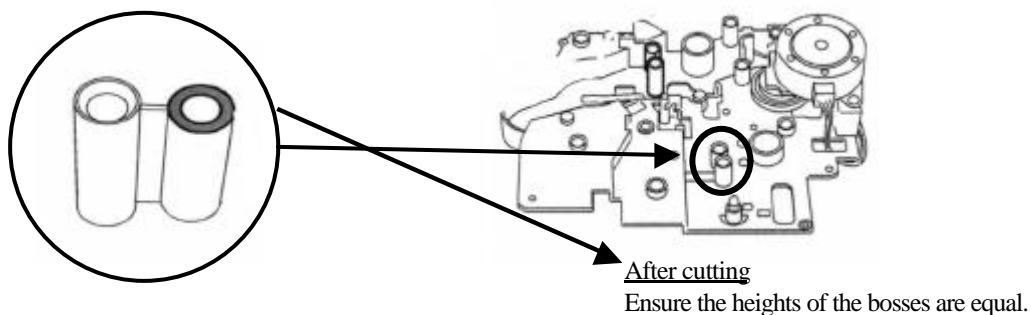


5. Partially cut the boss of the frame cover in which the shaft of the arm claw is inserted with a suitable safe cutting tool.

(Gray area shown in the previous figure should be cut.)

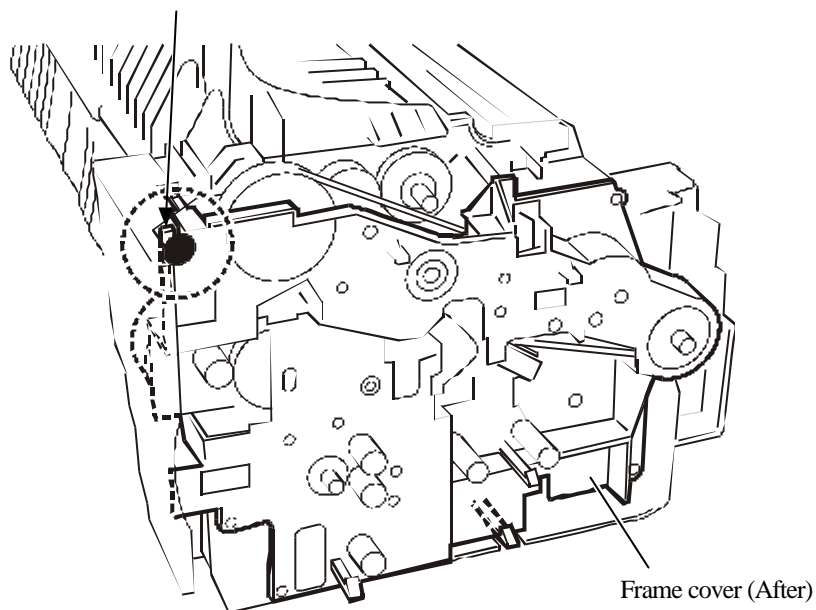
The cut surface does not need to be smooth if enough clearance can be obtained.

Note: Do not cut the next boss.



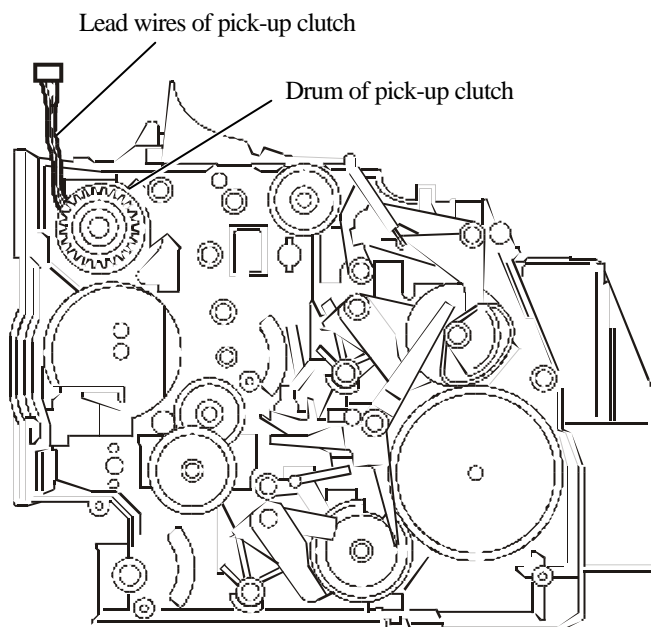
6. Add a classification mark.

Add a classification mark here.

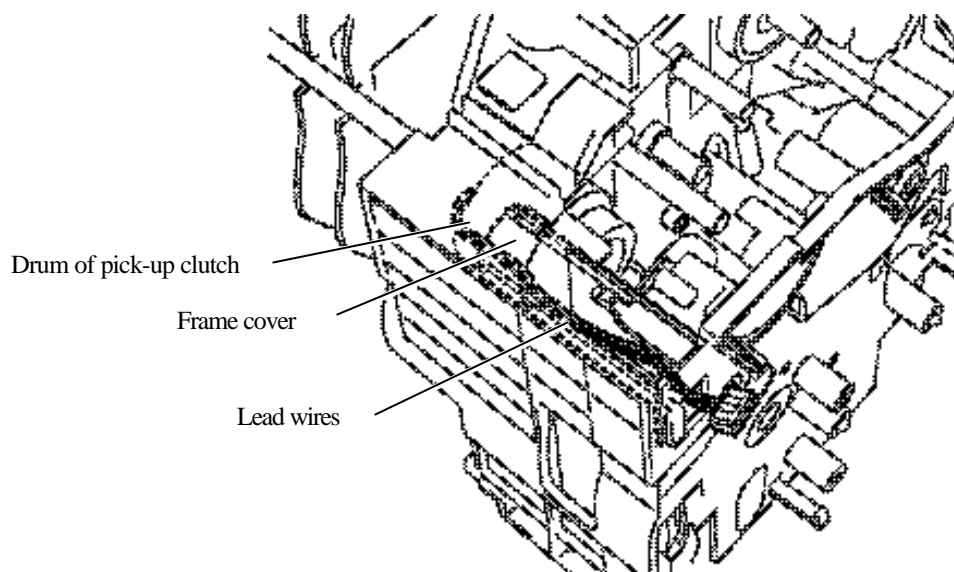


7-1) Install the frame cover.

Note: When installing, make sure that the lead wires do not interfere with the drum of the pick-up clutch. (See the figure in the next page.)



7-2) Install the frame cover while the lead wires are not pinched between the drum of the pick-up clutch and the frame cover.



8-1) Install two PCBs to the frame cover.

8-2) Install the paper pick-up assembly into the machine.

Service Parts:

No.	Description		Part number	Q'ty	Stock	Inter-change-ability	P.C.
							Stock date
1	Old	PAPER PICK-UP ASS'Y	FG5-6766-390	1→0	C	<div> <div>↓ No</div> <div>↑ Yes</div> </div>	Z40
	New	PAPER PICK-UP ASS'Y	FG5-6766-420	0→1	D		In stock
2	Old	PAPER PICK-UP ASS'Y	FG6-0765-130	1→0	C	<div> <div>↓ No</div> <div>↑ Yes</div> </div>	Z40A
	New	PAPER PICK-UP ASS'Y	FG6-0765-160	0→1	D		In stock
3	Old	PAPER PICK-UP ASS'Y	FG6-0766-130	1→0	C		Z40A
	New	PAPER PICK-UP ASS'Y	FG6-0766-160	0→1	D		In stock

Affected Machines:

Will be announced as soon as possible.