SUBJECT: **Finisher Tray Control**	DATE: Nov. 15, '93 PAGE: 1 of 2
PREPARED BY: H.Terashita CHECKED BY:	FROM: Copier Technical Support Section

CLASSIFICATION: ☐ Action Required ☐ Troubleshooting ☐ Retrofit Information	☐ Revision of service manual ■ Information only ☐ Other	MODEL: F200 X Finisher

Since the finisher tray will not be raised during a continuous copy run even if the copies have been removed from the tray, the following copies may not be stacked correctly on the tray.

As the field's request to enable the tray to raise up in the above situation, new tray control software has been added to the current software. The new operation software runs only when you turn on DIP SW 101-1 on the finisher main PCB. Note that the factory setting of DIP SW 101-1 is off.

The part number of the EPROM has been changed from A3535120 to A3535130. The part number of the main PCB remains the same.

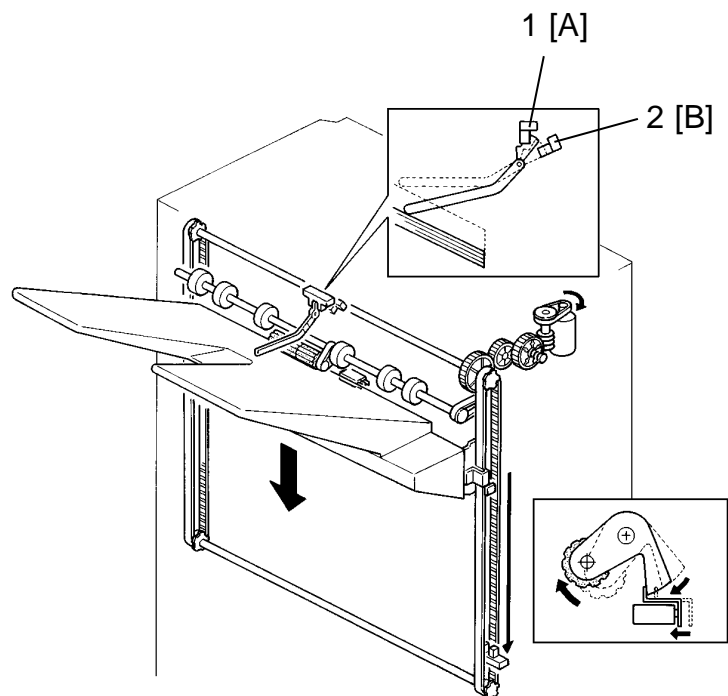The detailed tray control of the new software is as follows:

The tray position is controlled by referring to two stack height sensors, 1[A] and 2[B].

1. In the Tray Shift Mode

When the copies are removed from the tray during a continuous copy run, stack height sensor 1 [A] is actuated. Then the tray drive motor lifts the tray up until height sensor 2 [B] is actuated.

However, height sensor 2 will be actuated when the following copies are fed out to the tray. Therefore, the tray lift operation is stopped while sensor 2 is actuated by the copy. The tray resumes its lift operation until sensor 2 is actuated.

If sensor 2 is actuated for 3 seconds or more, the machine determines that the tray has been lifted to the upper limit, and lowers the tray for 50msec (Approx. 1mm).

2. In the Staple Modes

Since the tray is stopped at the position where sensor 1 is actuated in the Staple modes, it is not possible to detect if the copies on the tray have been removed during a copy cycle.

With the new software, the tray is lifted when the papers have been removed from the tray as follows:

1 [A]
2 [B]

1. When the stapled papers are fed out onto the tray (1.25 seconds after the finisher exit sensor is de-actuated), the machine starts to lift the tray.

2. When the sensor 1 is de-actuated, the machine lowers the tray.

3. When the sensor 1 is actuated, the machine stops the tray.

The tray, therefore, moves up and down during the copy run in the staple modes.

NOTE: Note that the tray operation frequency becomes very high with the new software. Since the tray drive motor will get a high load especially when many copies remain on the tray, we cannot guaranty the motor life with this new software and therefore the new software is not selected as the factory setting.