(2) Paper Take-Up Retry Control

- To minimize the occurrence of a paper misfeed due to a slippery Paper Take-Up Roll, the Paper Take-Up Motor (M11/12) is kept deenergized for a given period of time before it is energized again, if a sheet of paper fails to reach the Paper Take-Up Sensor (PC55/56) even after the lapse of a given period of time after the motor has first been energized (paper take-up retry control).
- A misfeed results if the sheet of paper does not reach the Paper Take-Up Sensor even after three paper take-up sequences.

(3) Paper Take-Up Interval Control

- The Paper Feed Roll and Separator Roll may sometimes fail to separate the subsequent sheet of paper properly and the leading edge of that paper may be beyond the Feed and Separator Rolls inside the copier. If the next paper take-up sequence is started in this condition, the distance between the preceding and the current sheet of paper will become shorter than normal, resulting in a misfeed.
- To maintain a given paper take-up interval, therefore, this copier provides the following control. If it takes the paper less than a specified time to block ([L]) PC55/56 after M11/12 has been energized, M11/12 is temporarily deenergized and, an appropriate period of time thereafter, it is energized again (paper take-up interval control).

(4) Double Feed Paper Take-Up Control

- Even if the Paper Take-Up Roll takes up two sheets of paper at one time, the double feed paper take-up control uses the second sheet of paper for the next copy cycle without causing a paper misfeed. It eliminates a paper misfeed that would otherwise result when two sheets of paper are taken up at once.
- If the second sheet of paper is stationary blocking PC55/56 when the trailing edge of the first sheet of paper moves past Vertical Transport Sensor PC63/PC64, the copier determines that it is a double feed condition and provides double feed control.
- If, however, the second sheet of paper has reached the Vertical Transport Roller, the double feed control is not provided since the paper is fed further into the copier by the Vertical Transport Roller. This could result in a paper misfeed or the second sheet of paper being fed through the copier with the first one.

