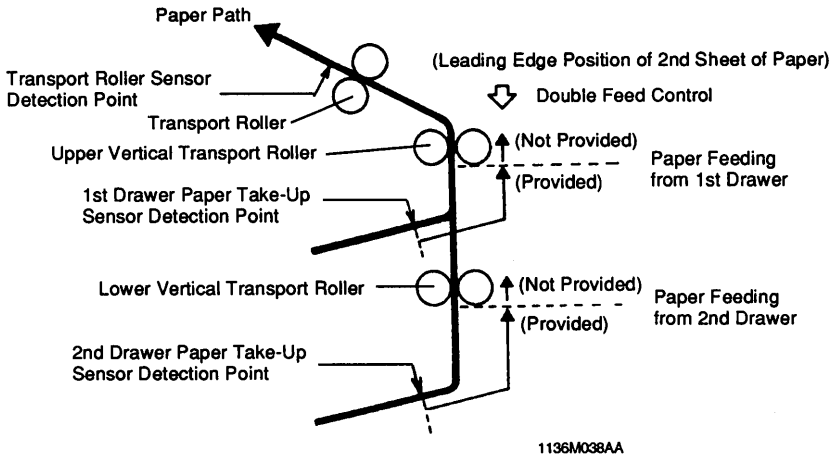
13-3-3. Double Feed Control

Even if the Paper Take-Up Rolls take up two sheets of paper at one time, the double feed 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, keeping the Paper Take-Up Sensor (1st Drawer: PC56; 2nd Drawer: PC57) activated, when the trailing edge of the first sheet of paper moves past Transport Roller Sensor PC54, 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 (paper feeding from the 1st Drawer: Upper; paper feeding from the 2nd Drawer: Lower), 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.

If double feed control is provided, it results in the paper take-up interval timer becoming longer. That means longer intervals between two successive paper take-up motions, resulting in a decreased cpm (productivity).



Here is the control timing chart.

