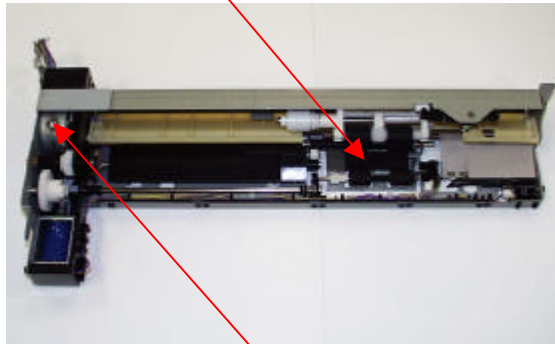


Paper Tray 1 & 2 – Paper Handling Module

Tray 1 & 2 Operational Overview

Trays 1 and 2 are the same and are interchangeable. They can each hold up to 550 sheets of 20lb / 80gsm paper. The major assemblies are the Paper Plate and the Paper Guide Assembly. The Feed Head Assembly is mounted in the machine and is not part of the tray. When feeding paper from tray 1 or 2, the Pre Feed supplies drive to the feed head that pivots down each time the feed solenoid energizes to feed a sheet of paper. As the paper supply drops, a stack height sensor on the feed head is unblocked causing the pre feed motor to stop and reverse direction in order to raise the paper stack. When the stack height sensor is blocked again, the pre feed motor will reverse direction and supply drive to the feed head so paper feed can resume. When the paper supply is exhausted, the last sheet leaving the tray exposes an opening in the paper plate and allows the No Paper Sensor actuator to drop into the opening. In doing so, it unblocks the No Paper Sensor, which signals the control logic to stop the pre feed motor and to display an Add Paper condition on the User Display.

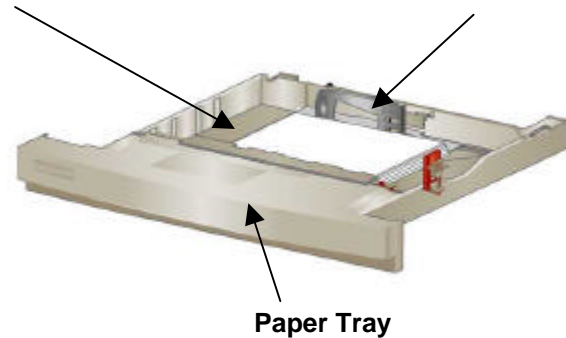
Feed Head Assembly



Pre Feed / Lift Motor

Paper Plate

Paper Guide Assembly



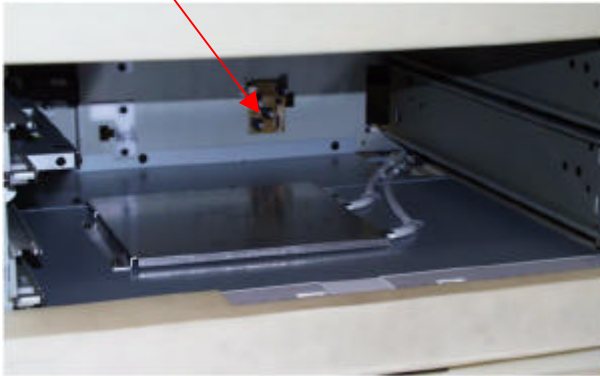
Paper Tray

Paper Tray 1 & 2 – Paper Handling Module

Tray 1 & 2 Operational Overview (Continued)

Running out of paper and pulling the tray out of the machine deactuates the Paper Size Sensors and disengages mechanical drive to the paper plate. This allows the paper plate to lower to the bottom of the paper tray. The tray is now ready for paper loading. Loading the paper tray and pushing the tray back into the machine actuates the Paper Size Sensors (used as paper tray interlock) and engages the drive to the feed head. When the tray is in the machine, the control logic will switch on the Pre Feed/Lift Motor in reverse. The motor will continue to raise the paper stack until it lifts the feed head and blocks the Stack Height Sensor. The Pre Feed /Lift Motor will then stop. The control logic will reverse the direction of the motor to feed a sheet of paper to the Pre feed Sensor. The tray is now ready for a paper feed signal.

Paper Size Sensors



Stack Height Sensor

