

# **Hamilton Manufacturing Corporation**

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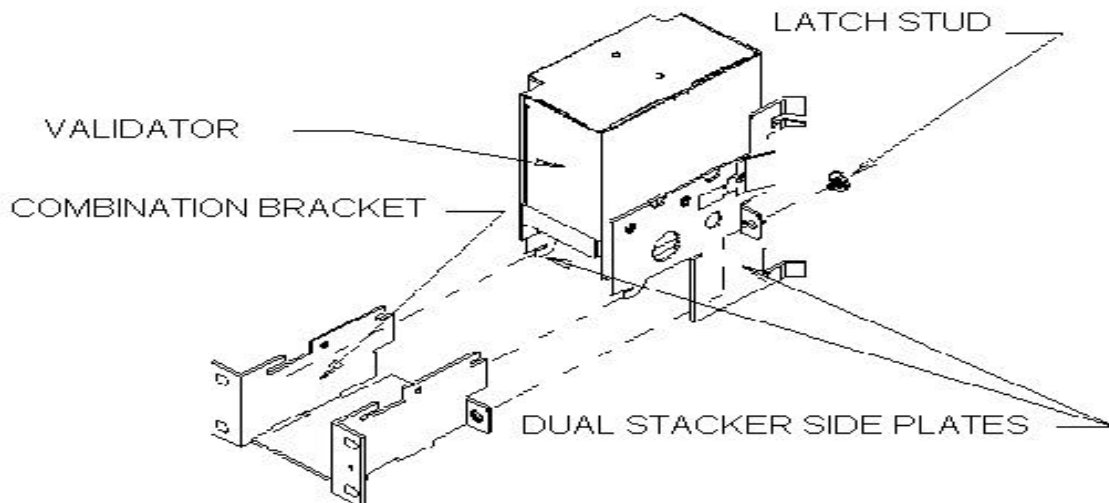
## **HVX / DUAL STACKER UPGRADE PROCEDURE**

# HV-X / DUAL STACKER UPGRADE PROCEDURE

In order to convert an existing changer to accommodate both the HV-X Validator and a Dual Stacker, mechanical and electrical modifications must be made. These procedures are explained in the following sections.

## INSTALLING DUAL STACKER BRACKETS

1. Secure the Side Plates to the Validator using the 8-32 flathead screws provided.
2. Mount the Hanger Bracket to the front of the changer, replacing the existing bracket.
3. Slip the tabs on the Side Brackets into the notches on the Hanger Bracket and push forward.
4. Tighten the Latch Studs.
5. Connect the Harness to the Validator.
6. Connect the Harness to the Dual Stacker by following the procedures in the **Installing Harness Modifications** section below.
7. Hang the Stacker.



# INSTALLING HARNESS MODIFICATIONS

- 1.** Determine if Dual Stacker Harness Addition is required. This can be done by inspecting the 22-pin edgecard connector that plugs into the Controller. If this connector does not have a wire coming from position 10 of the 22-pin edge card connector, the Dual Stacker Harness Addition is required, and step 2 of these procedures should be performed. If there is a wire coming from position 10 of the edge card connector, the Addition is not required and step 2 of these procedures should be omitted.

- ❖ Position 10 can be identified noting that position 9 has a gray wire inserted in it and position 11 has a brown wire inserted.

- 2.** Install the Dual Stacker Harness Addition. The Dual Stacker Harness Addition is a single wire, approximately 2 feet in length, that is terminated on one end with a fork terminal and on the other end with a single circuit Molex connector. This Harness Addition is necessary to route important position sensing signals to the Controller. To install the Addition, first push the fork terminal attached to one end of the Dual Stacker Harness Addition into position 10 of the 22-pin edge card connector. Then, route the remaining length of the Addition along the existing harness (using several tie wraps to hold in place) so the one circuit Molex plug ends at the same place as the 6-circuit Stacker connector. See the following diagram.

- 3.** Install the Dual Stacker Harness Extension. The Dual Stacker Harness Extension is a short, 3 inch, multi-wire adapter harness that is terminated on one end with a 6-circuit Molex mini-fit socket connector, and on the other end with a 6-circuit Molex socket connector and a single circuit Molex socket connector. This Extension routes the signals needed to control the Dual Stacker to the Controller. To install the Extension, connect the 6-circuit Molex socket connector on the Extension to the 6-circuit Molex plug connector for the Stacker on the existing harness. Next, connect the single circuit Molex socket connector on the Extension to the single circuit plug connector on the Dual Stacker Harness Addition (installed in step 2 above). Finally, connect the 6-circuit plug connector coming from the Dual Stacker to the 6-circuit Molex mini-fit socket connector on the Dual Stacker Harness Extension. See the following diagram.

#### 4. Change the Dual Stacker Configuration Switch on the backside of the Controller.

If using a **C2000 Controller**, refer to the following guidelines:

- The C2000 Controller must be a version v1.9 or higher and switch #2 must be in the “ON” position.

If using an **Audit Pro Controller**, refer to the guidelines below:

- If the Audit Pro Controller version is a v3.4 or lower, switch #6 must be in the “ON” position.
- If the Audit Pro Controller version is a v3.5 or a v4.0 or higher, switch #2 must be in the “ON” position.

# HV-X / DUAL STACKER UPGRADE DIAGRAM

