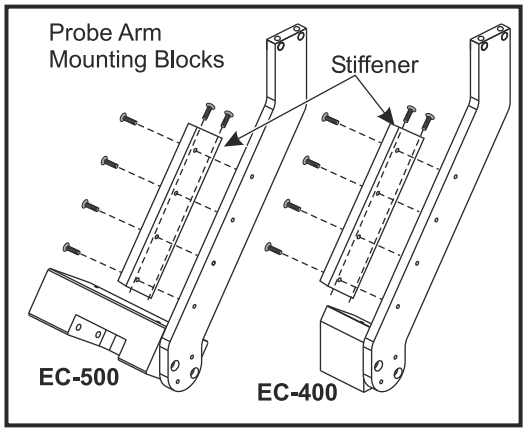
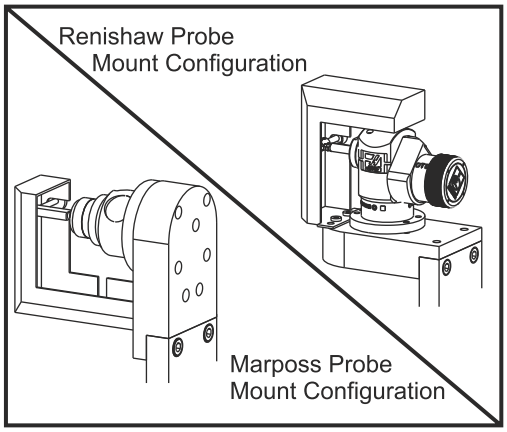
Effective Date: June, 2007

EC-400/500 - WIPS - Installation

The tool setting probe is installed on a mounting arm that is secured to the rotary body. For EC-400/500 machines, this arm is secured to a mounting block installed to the operator side of the rotary body. The probe assembly also incorporates a chip shield for these machines. See the following illustration.





Tool Setting Probe Installation

1. Secure the probe arm and mounting block to the rotary body. Install the stiffener to the arm. Install the probe mount block to the end of the arm in the appropriate configuration for your probe.

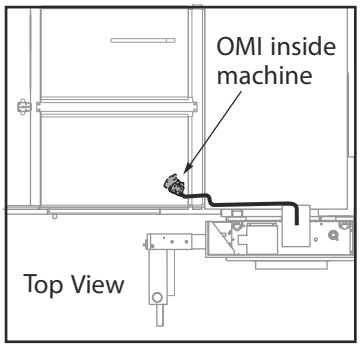
2. Install the probe on the probe mount block.

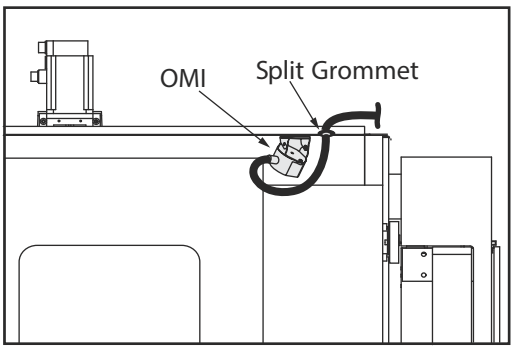
3. Indicate-in the probe stylus within .001" (0.03 mm)

4. Attach the chip shield.

OMI Mounting

1. Mount the OMI unit on the top cover as shown. Attach one of the brackets to the top cover. Mount the OMI to the other bracket using (2) 10-32 x 3/8 bolts. Fasten the OMI/bracket to the bracket using (2) 8-32 x 3/8 bolts.





2. Remove the plug in the top cover and route the cable through the top cover to the control cabinet. See the Electrical Connections section for the location of the OMI cable socket. Install the grommet (must be cut) into the hole on the top cover.

3. Route the cable into the top of the control cabinet. Position the conduit so that it ends inside the J-box. Secure the other cables on top of the machine using cable ties.

EC-400/500 - WIPS - Electrical - Installation

Warning

Power down the machine before any work is done.

1. **Marposs Installation Only:** Open the control cabinet and install the E83T interface module to the back plane of the control cabinet using a short section of DIN RAIL and a 1/4-20 screw or 10-32 screws, depending on the control. (See figures below for location).

Upper Entry Into Control Cabinet:

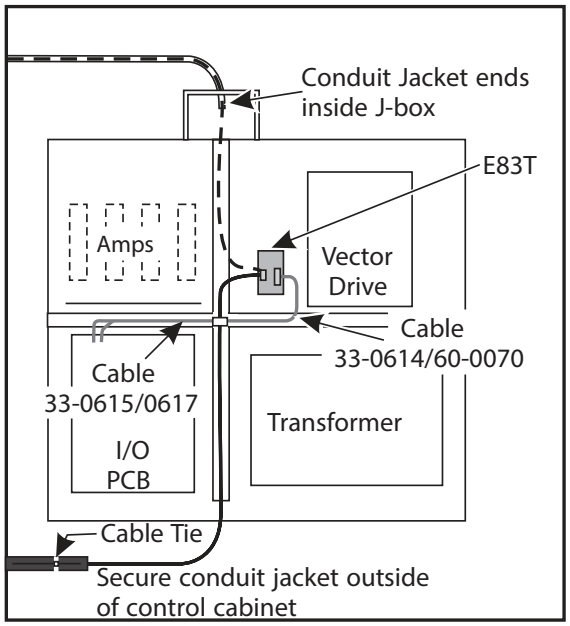
Route the cable conduit into the J-box at the top of the control cabinet. Pull the cable down through the center vertical wire channel and route to the E83T unit. Connect the OMI cable to the 6-pin plug on the E83T.

Lower Entry Into Control Cabinet:

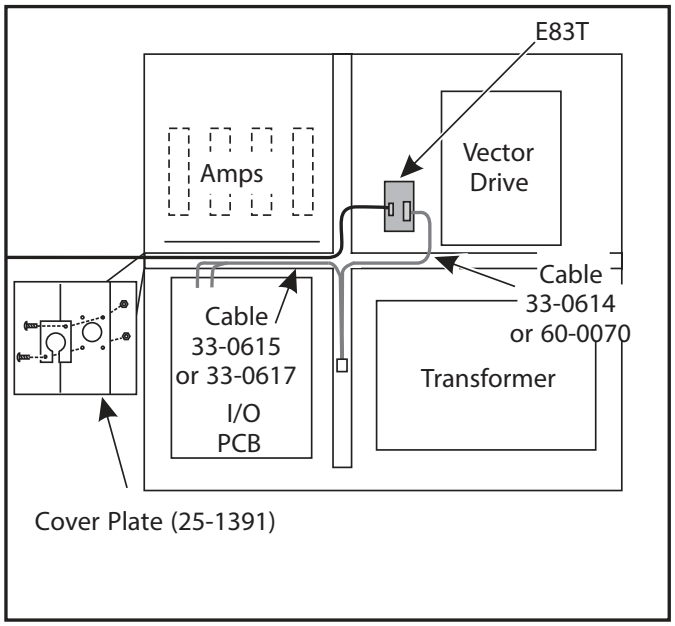
Route the cable conduit to the bottom of the control cabinet. Secure the conduit jacket to the outside of the control cabinet with a cable tie. Route the cable up through the center vertical wire channel and connect to the 6-pin plug on the E83T plug.

Side Entry into Control Cabinet:

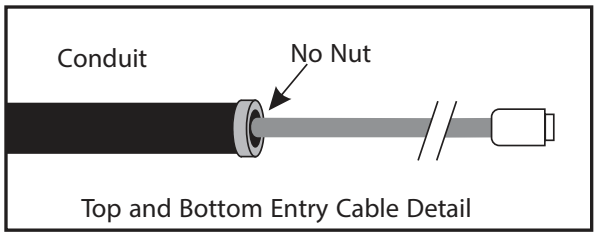
Use the vacant hole in the side of the cabinet nearest to the wire channel above the I/O PCB. Slide the cover plate (25-1391) over the conduit and secure to the cabinet using two PPHS 8-32 x 3/8" and two 8-32 hex nuts with lock washers. Fasten the end of the conduit to the cover plate with the conduit nut. Route the OMI cable along the center horizontal wire channel and connect to the 15-pin plug on the E83T unit.



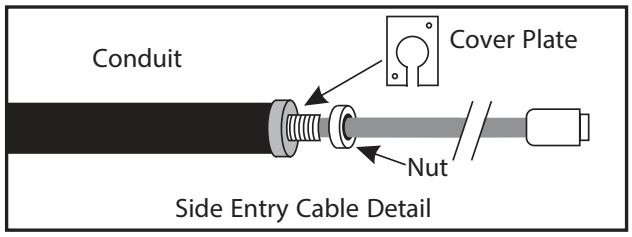
Upper / Lower entry into Control Cabinet



Side Entry Connection



Top and Bottom Entry Cable Detail



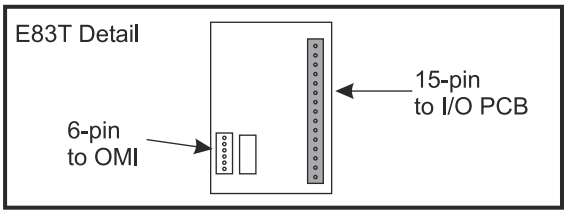
Side Entry Cable Detail

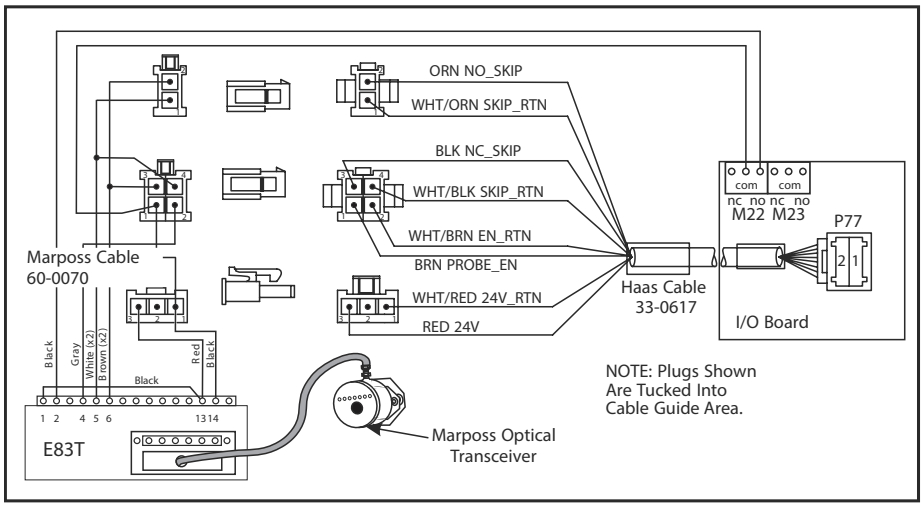
Cable Connections

Early Marposs Connection

A single cable incorporates the probe wires and power supply into the one cable.

1. Plug the Haas Probe cable 33-0617 into P77 of the I/O PCB. Plug Marposs cable 60-0070 into the E83T unit. Route these cables along the center horizontal wire channel and join the cable plugs.
2. Plug the M22 connector on the Marposs wiring harness into the I/O board.



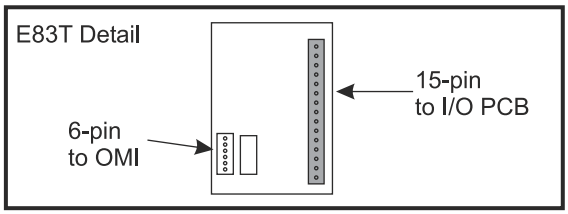


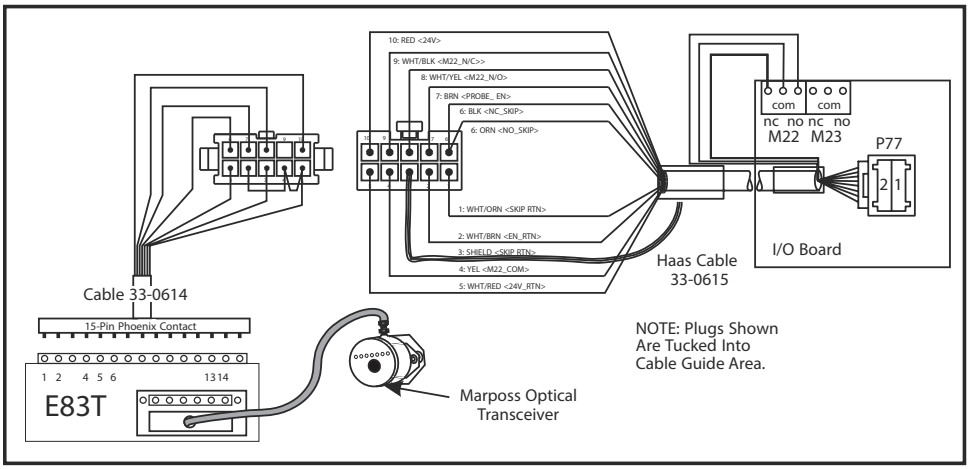
New Marposs Connection

1. Plug probe cable 33-0615 into P77 on the I/O board.

2. Plug the jumper from the probe cable into M22. Plug cable 33-0614 into the E83T interface.

3.Route cables 33-0615 and 33-0614 along the center horizontal wire channel and join the plugs.

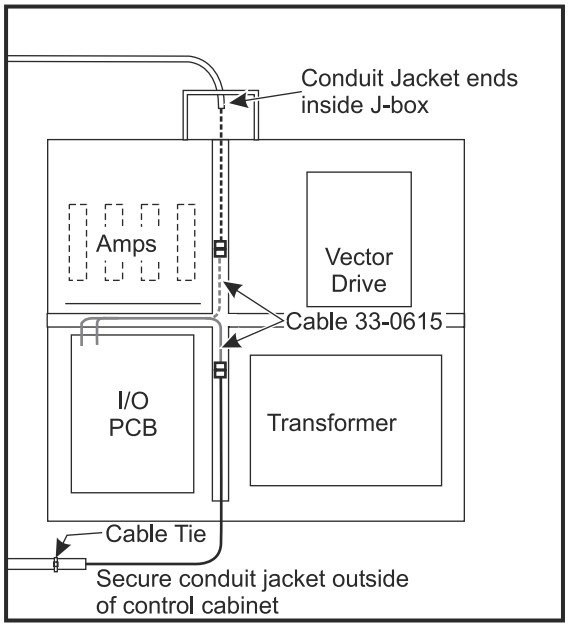




Renishaw Electrical Installation

1. Route the OMI cable through the top or bottom of the control cabinet as shown, depending on the installation performed.

2. Join the OMI cable and 33-0615 cable plugs. Plug the Haas probe cable 33-0615 into P77 on the I/O board. Plug the jumper from the probe cable into M22.



Upper / Lower entry into Control Cabinet