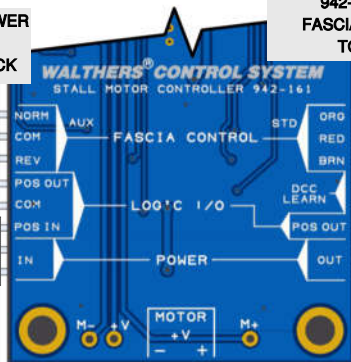


WALTHERS® 942-161 STALL MOTOR CONTROLLER

ELECTRICAL CONNECTIONS

CONNECT INPUT POWER
FROM 942-111
DISTRIBUTION BLOCK

CONNECT 942-121,
942-122, or 942-123
FASCIA CONTROLLERS
TO STD INPUT



INSTALL JUMPER
TO SET DCC
ADDRESS
REMOVE FOR
OPERATION

USE 942-113 EXTENSION CABLES
(UP TO 4) TO EXTEND POWER,
MOTOR AND FASCIA
CONNECTIONS AS NEEDED

REVERSE CONNECTOR
ORIENTATION TO CHANGE
MOTOR DIRECTION

INSERT LIMITING
RESISTOR IF
REQUIRED

CENTER (RED) WIRE
NOT USED ON TWO-
TERMINAL MACHINES

OPTIONAL 942-142 EDGE CONNECTOR
FOR TORTOISE® MAY BE USED IN
PLACE OF SUPPLIED CABLE

See the manufacturer documentation for details on making proper electrical connections to stall motor machine and proper selection of current limiting resistor required.

For complete details on mounting, electrical connections, controller adjustments, options and warranty information, see the Switch Machine Reference Guide at walters.com/products/walters-control-system.

WALTHERS® 942-161 STALL MOTOR CONTROLLER

INSTALLATION INSTRUCTIONS

- 1) If possible, mount the controller bracket directly on or alongside the switch machine itself using the self-adhesive pad. When attaching to a Tortoise®, mount on the side opposite the actuator mechanism to avoid interfering with the machine's mounting screws.
- 2) If necessary, you may also secure the Controller to nearby benchwork using two #4 flathead screws (not included). It is not necessary to remove the adhesive backing paper. Snap the Controller PC board onto the bracket with the connection lettering facing up as shown.
- 3) Using the supplied cable, connect the brown and orange wires to the stall motor terminals. If connecting to a Tortoise® machine, the 942-142 Edge Connector (sold separately) may be used instead for a solderless connection. If your stall motor requires a series resistor, connect in series with one of the motor terminals. The center red wire is the positive supply voltage (+V) and is not used with two-terminal machines. Consult the stall motor manufacturer documentation for proper connections and resistor requirements.
- 4) The controller may be operated by any of the standard controllers: Dual LED Fascia Turnout Controller #942-121 (yellow-green), Crossover Fascia Controller #942-122 (yellow-green) or Accessory Fascia Controller #942-123 (yellow-green), each sold separately. The Switch Machine Reference Guide available on-line contains additional information on using other push-buttons, toggle switches, or logic devices for control.
- 5) The Walthers 2 Amp 12V Filtered DC Power Supply (#942-110) and Power Distribution Block (#942-111) are recommended for controller power using the supplied cable. Alternately, a 10 to 18 volt **filtered DC** supply may be used and connected to the Power In terminals. See the Reference Guide for recommendations when using a DCC booster output for Controller power.
- 6) You may add up to four 942-113 Extension Cables (sold separately) to the Controller input power, fascia controller, and motor connections if needed to reach the machine location.
- 7) As supplied, the internal DCC control function is disabled. To set a DCC address, place the supplied jumper on the DCC Learn terminal, then send an 'ON' command to the address you wish to use. The jumper must be removed for normal DCC operation. See the DCC section of the Reference Guide for complete information on DCC options.
- 8) The Reference Guide at walthers.com/products/walters-control-system contains instructions on use of the Lock Enable, Color Mode, and Voltage Adjust options to modify the controller behavior when needed.