

10260A series Motor Positioner Card Kit Replacement/Upgrade Instructions 51404978-501 through 504

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Summary

This kit contains a new motor positioner card and 30 ohm resistor for your 10260A actuator. If you are adding the card to a unit without one, kits –503 and –504 contain cables for connections to the card.

Procedure

See Table 1 for procedure.

WARNING

Disconnect power before accessing components inside the instrument.

ATTENTION

When working with circuit cards always protect against electrostatic discharge by wearing a grounded wrist strap.

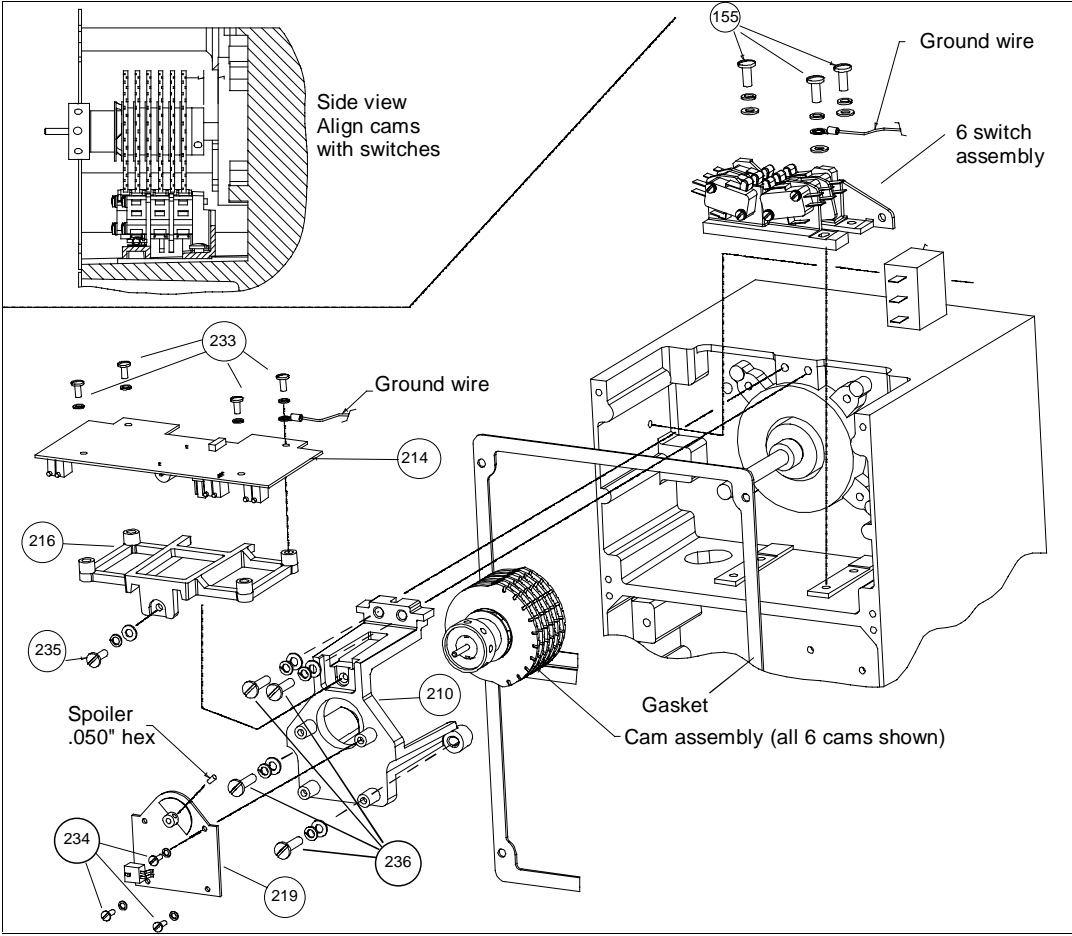
Table 1 10260A Motor Positioner Card Installation Procedure

| Step | Action |
|------|--|
| 1 | Remove both rear covers. |
| 2 | Remove existing motor positioner card, if present: <ul style="list-style-type: none">• Motor positioner card is attached to rear cover.• Label then disconnect connectors from J1 and J2.• Remove 4 screws and remove card. |
| 3 | Install new motor positioner card card: <ul style="list-style-type: none">• Attach new card to rear cover with 4 screws. |

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| Step | Action |
|------|---|
| 4 | <p>Connect wiring:</p> <ul style="list-style-type: none"> If replacing the card, reconnect wires to J1 and J2 as before. If adding the card, use cables provided to connect wires as shown in Figures 1 and 2. To access J4 on the output card, remove the screw (Figure 3, item 235) securing the output card to the frame above the cams. After connecting to J4, reattach output card frame with screw (item 235). For connections to terminals and transformer ground, feed wires through hole to lower compartment. To access the rear of the terminals, remove the terminal board plate (2 screws). Note 1: TB1 refers to uppermost terminal board. TB1-1 is leftmost terminal. Note 2: When connecting piggyback connectors to outer terminals (TB1-1, TB1-9, TB2-10), make sure piggyback connectors are between the outermost and next-to-outermost terminals, not protruding past the outermost terminals. For example, TB1-1 should have its piggyback terminal positioned between TB1-1 and TB1-2. <div data-bbox="521 703 1266 1075" data-label="Diagram"> <p>Optional Motor positioner card 51404978</p> <p>J2 connections (Cable 51404923-001): Green to chassis ground on transformer plate Gray to TB1-2 Black to TB1-1 Violet to TB2-11 Brown to TB2-10</p> <p>J1 connections (Cable 51404922-001): Red to TB4-31 Brown to TB4-30 Orange to J4 on output card Yellow to J4 on output card</p> </div> <p style="text-align: center;">Figure 1 Wiring</p> <div data-bbox="483 1186 1304 1808" data-label="Diagram"> <p>Reattach resistor here (on CAT/PAT models 10261, 10262, 10264, 10266, 10267, 10268)</p> <p>Green to Motor Positioner card J2, if present</p> <p>Ground</p> <p>Reattach capacitor in any of these locations depending on model. See * below for wiring.</p> <p>Transformer</p> <p>Reattach 5/32" hex head screw through this hole (models 10263 and 10265)</p> <p>Leave resistors in place (models 10263 and 10265)</p> <p>* Capacitor wiring for Kits 51404974-507 through -510 only:</p> <ol style="list-style-type: none"> 1. Connect green to green motor wire. Connect black to black motor wire. 2. Connect green to capacitor (use small wire nut crimp) 3. Connect black to capacitor (use small wire nut crimp) 4. On models 10260, 61, 62, 64, 66, 67, 68, solder 30Ω resistor to 2 black wires On models 10263 and 10265, strip and wire nut 2 black wires together </div> <p style="text-align: center;">Figure 2 Ground connection to transformer plate</p> |

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| Step | Action |
|-----------------------|---|
| <p>4 (cont'd)</p> |  <p style="text-align: center;">Figure 3 Exploded view</p> |
| <p>5</p> | <p>Replace/add 30 ohm resistor, if needed (units 10260A, -61A, -62A, -64A, -66A, -67A, -68A, -69A)</p> <ul style="list-style-type: none"> In the lower compartment, check the resistor value between the capacitor and the motor. Resistance should be 30 ohms +/-1.5 ohms. If not, replace with the new 30 ohm resistor. See Figure 2. |
| <p>6</p> | <p>Calibrate motor positioner board:</p> <p>See document 62-86-25-06, 10260A Series Actuators with Non-Contact Position Sensing Installation, Operation and Maintenance Manual. Refer to calibration section.</p> |
| <p>7</p> | <p>Install new gasket and reattach covers.</p> |