

80-0042-06

Rev. 01.2

SUPPLEMENT TO MANUAL:

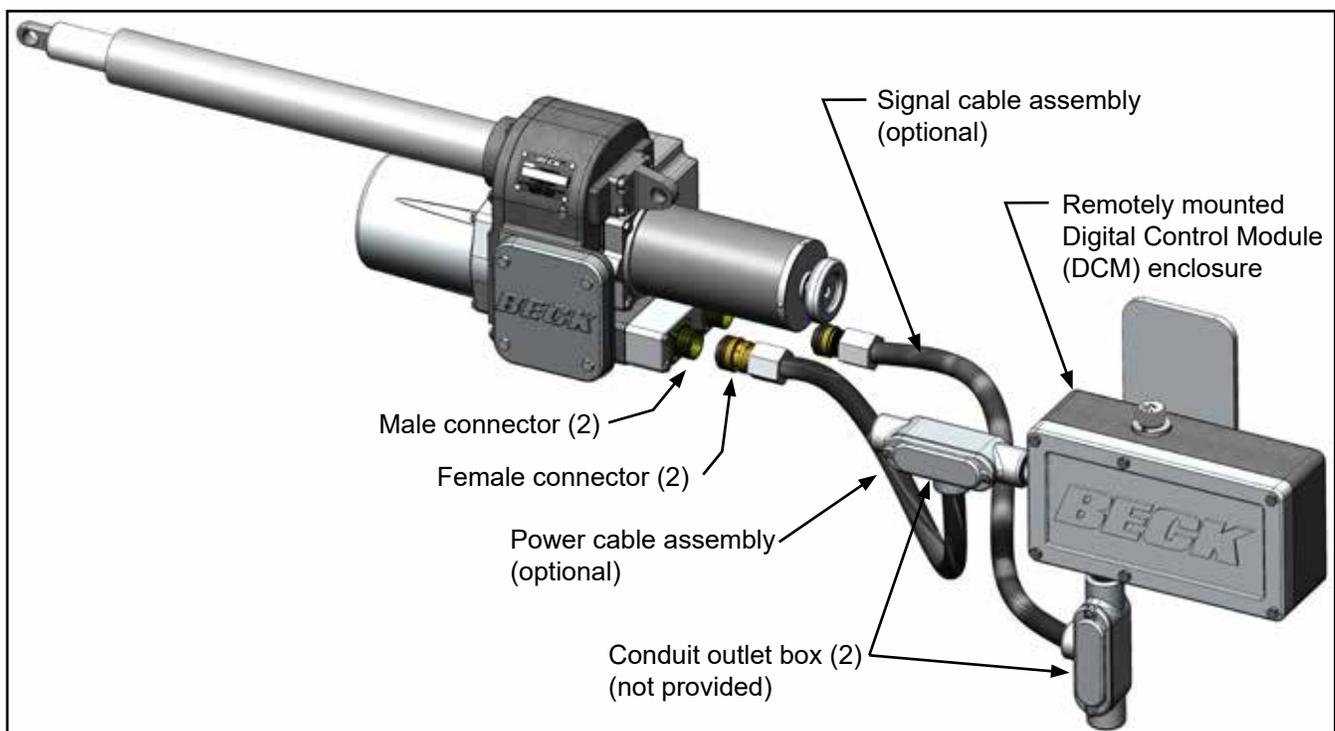
- 80-0042-01  
(Group 42, Option 9)

# BECK®

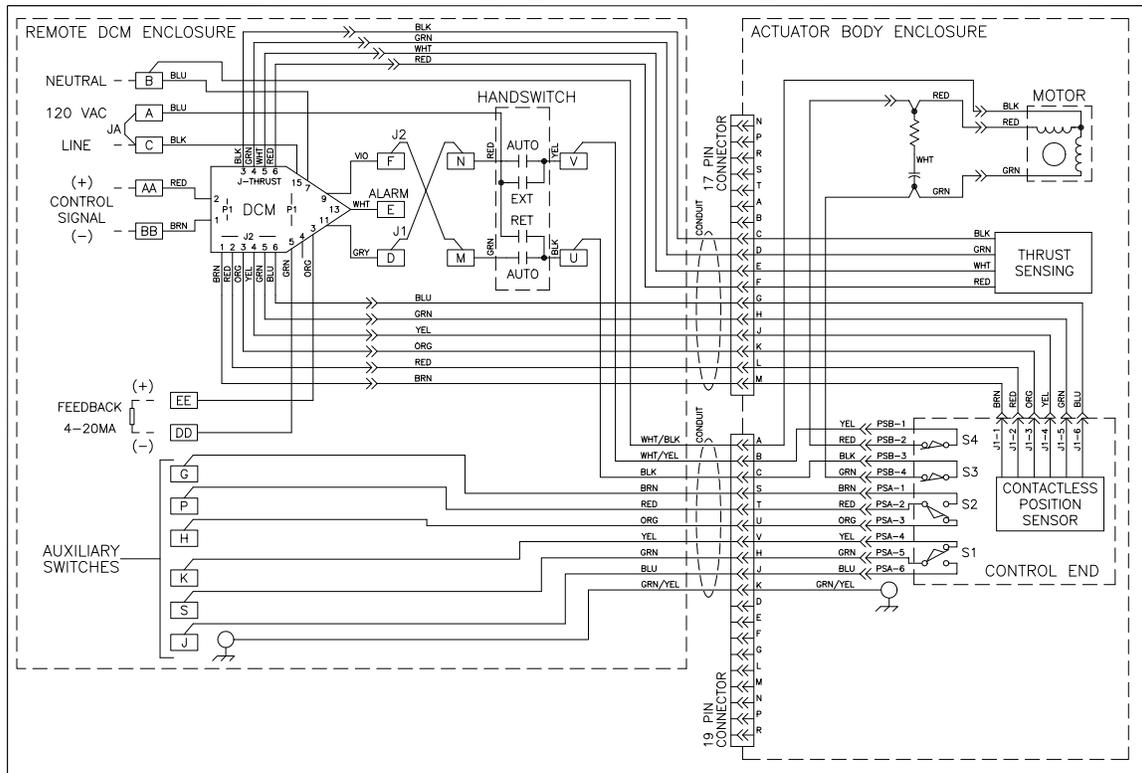
## BECK GROUP 42 w/ REMOTEY MOUNTED DCM

The instructions and procedures for Installation, Operation, Calibration and Maintenance for Beck Group 42 Option 6 Electric Actuators are the same as listed in the above manual (80-0042-01), with the exception of wiring setup which is detailed in this supplement.

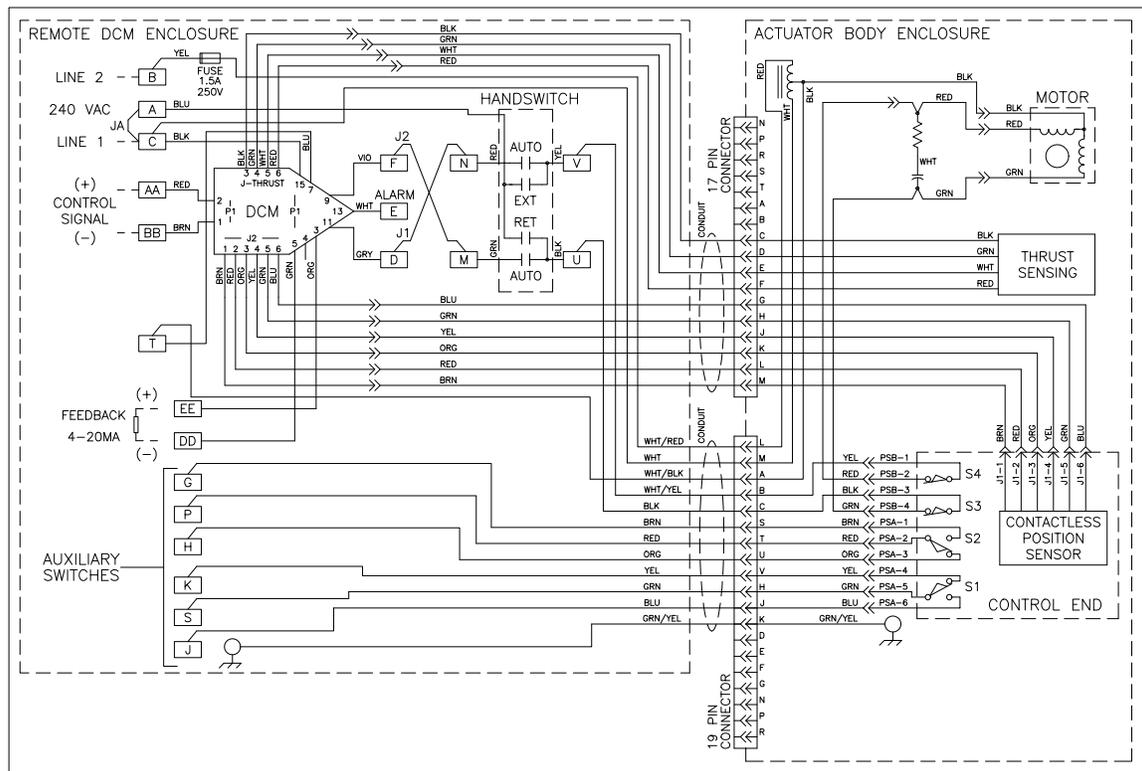
**IMPORTANT:** Read this Supplement and the Instruction Manual you received with your shipment prior to installing or performing any maintenance on your actuator(s).



42-106 typical installation (shown with optional power and signal cable assemblies)



TYPICAL 42-106 WIRING DIAGRAM (120V)



TYPICAL 42-106 WIRING DIAGRAM (240V)

## **WIRING SETUP (from the actuator to the remotely mounted DCM)**

### **POWER**

If the optional pre-assembled power cable (part no. 20-0514-20 or 20-0515-20) was provided with the actuator, please skip to step 3.

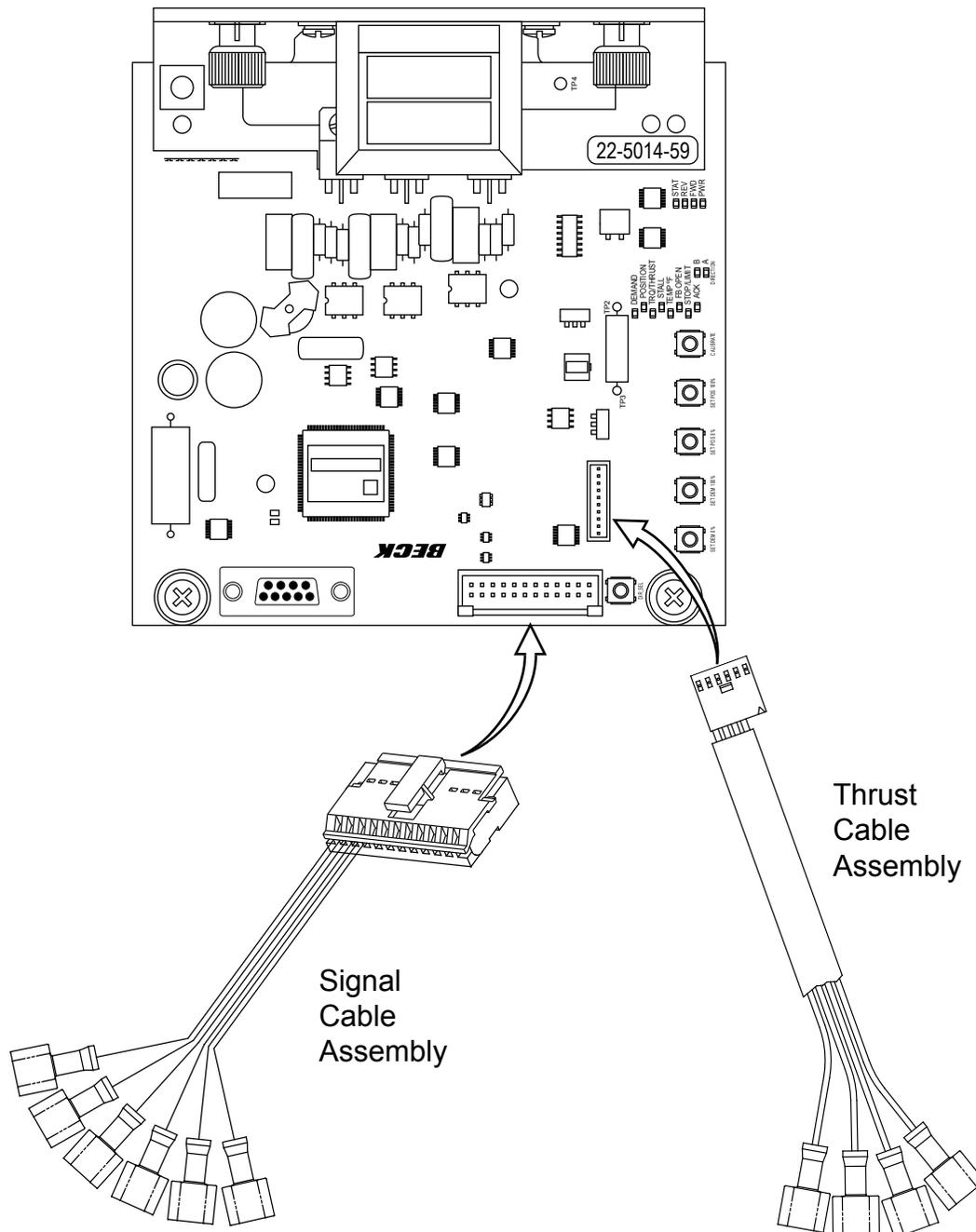
1. Solder 10 (or 12, if a 240V actuator) appropriate lengths of 18 AWG wire (not provided) to the pins on the female connector (provided, see cover illustration) for the power wiring (this is the connector with 19 sockets). Ensure that the wires are long enough to connect the actuator to the remotely mounted DCM enclosure. The lettered soldering points are shown in the wiring diagram on the inside cover of the DCM enclosure (or on the previous page).
2. Run the wires through a conduit of sufficient length to allow for connection between the actuator and the remotely mounted DCM enclosure.
3. Attach the female connector to the proper male connector on the actuator (as shown in cover illustration).
4. Route the loose wire ends through a conduit outlet box (not provided) and into the conduit on the side of the DCM enclosure.
5. Locate the 10 (or 12) crimp-on rings provided and attach to the wire ends. NOTE: The rounded ring is provided for the grounding wire.
6. Screw the rings onto the appropriate terminals (see wiring diagram). Tighten screws to 16 lb-in.
7. Ensure that the conduit outlet box is properly secured to the DCM power conduit.

### **SIGNAL**

If the optional pre-assembled signal cable (part no. 20-0513-20) was provided with the actuator, please skip to step 11.

8. Solder 10 appropriate lengths of 18 AWG wire (not provided) to the pins on the female connector (provided, see cover illustration) for the signal wiring (this is the connector with 17 sockets). Ensure that the wires are long enough to connect the actuator to the remotely mounted DCM enclosure. The lettered soldering points are shown in the wiring diagram on the inside cover of the DCM enclosure (or on the previous page).
9. Locate the loose ends of the 4 wires (soldered to points C, D, E & F in Step 8) that will be used for thrust sensing and secure a cable tie (provided) around these 4 wires; leaving sufficient room for crimp-on connectors to be attached in Step 13.
10. Run the wires through a conduit of sufficient length to allow for connection between the actuator and the remotely mounted DCM enclosure.
11. Attach the female connector to the proper male connector port on the actuator (as shown in cover illustration).
12. Route the loose wire ends through a conduit outlet box (not provided) and into the conduit on the bottom of the DCM enclosure.
13. Locate the 10 crimp-on female connectors provided and attach to the wire ends.
14. Locate the DCM thrust sensing connection pigtail in the DCM enclosure. The plug end of this assembly should already be connected to the thrust sensing module on the DCM (see illustration on back page).
15. Attach the 4 loose wires of the thrust sensing connection pigtail to the appropriate cable-tied wires that have been pulled through the signal conduit of the DCM enclosure (see wiring diagram).
16. Locate the signal DCM connection pigtail in the DCM enclosure. The plug end of this assembly should already be connected to the DCM (see illustration on back page).
17. Attach the 6 loose wires of the signal DCM connection pigtail to the appropriate remaining wires which have been pulled through the signal conduit of the DCM enclosure (see wiring diagram).
18. Ensure that the conduit outlet box is properly secured to the DCM signal conduit.

### Digital Control Module (DCM-3 shown)



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