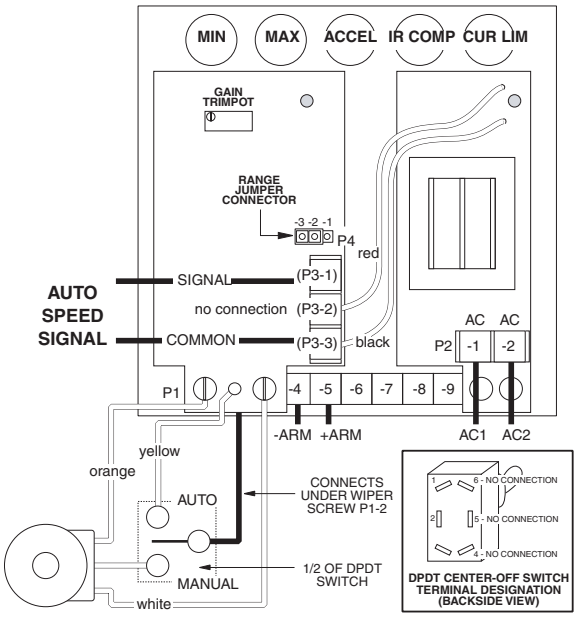
DC-250D-RBD OPTION FOR THE RBD SERIES

Isolated Voltage Input

Field Installed
Chassis Version

This is an Auto-Manual version of the -55G2 option. This option permits use of either a grounded or non-grounded remote DC voltage speed command. This DC input range, which can be selected via the range jumper clip and adjusted with the GAIN trimpot, can range from 0-5VDC through 0-25VDC (P4-2 to P4-3) or 0-25VDC through 0-250VDC (P4-1 to P4-2). The output of this option board supplies a linear signal to the control. This signal is developed from the input voltage supplied to the option board. The option is powered by the dual voltage AC input and replaces the 5K speedpot.



ADJUSTMENT PROCEDURE FOR DC-250D-RBD

1. With no power at the control, connect a DC voltmeter (meter must not be grounded) to control outputs as follows: **Meter COMMON to the -ARM terminal; Meter POSITIVE to the +ARM terminal**. Select correct meter range (0-90V or 0-180V).
2. Preset GAIN trimpot (option board) fully CCW, place range jumper clip in proper position.
3. Preset control as follows: MIN and I.R. COMP. fully CCW, MAX at 50%.
4. Apply desired AC voltage to control and option board.
5. With 0 volts into option board, adjust MIN trimpot on control to eliminate deadband. To do this, increase MIN fully CW, then adjust CCW until meter reads 0 volts.
6. Apply maximum input voltage to option board input.
7. Adjust GAIN until no further change in voltage output occurs and turn CCW until a 5V drop occurs, then set control MAX to 90VDC (180VDC for 240V input).
8. Set CURRENT LIMIT by using “TRIMPOT SETTING CHART” in the instruction manual.
9. For Closed Loop systems the IR COMP. should remain fully CCW. For Open Loop systems, set IR as per set-up procedure.
10. ACCEL/DECEL adjustments should be set as needed.

Boston Gear
An Altra Industrial Motion Company

Boston Gear
701 Carrier Drive
Charlotte, NC 28216
www.bostongear.com
Customer Service 800-825-6544

A-5-3749A 2/12

Printed in USA
LT111