

MODEL 13DVA Rev.A / 15DVA Rev.A HOOK-UP

WARNING

IMPROPER INSTALLATION OR OPERATION OF THIS CONTROL MAY RESULT IN INJURY TO PERSONNEL OR ELECTRONIC FAILURE. THE CONTROL MUST BE INSTALLED AND GROUNDED IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL SAFETY CODES. AT NO TIME SHOULD THE CIRCUIT CONTINUITY BE CHECKED BY SHORTING TERMINALS WITH A SCREWDRIVER OR OTHER METAL DEVICE.

PLEASE READ COMPLETELY BEFORE MAKING ANY ADJUSTMENTS

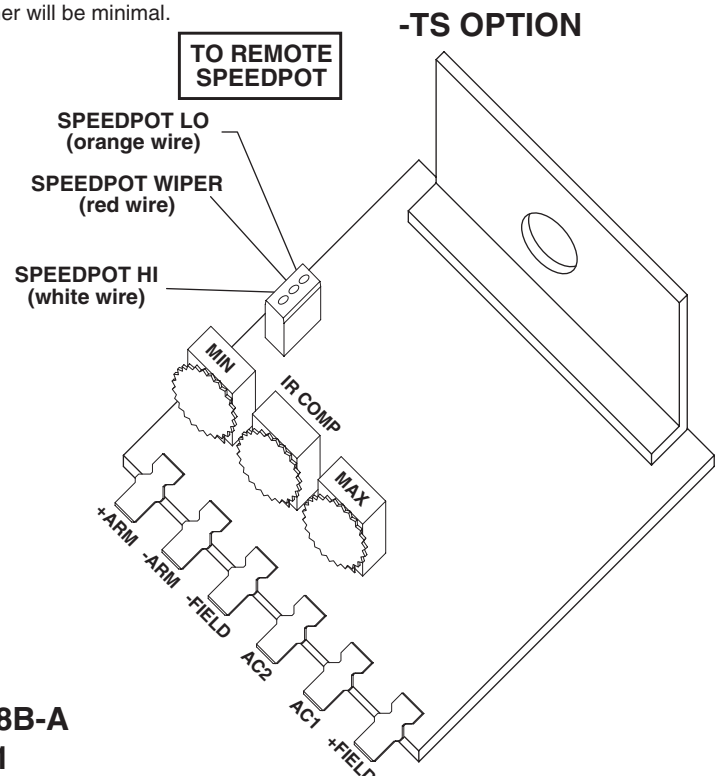
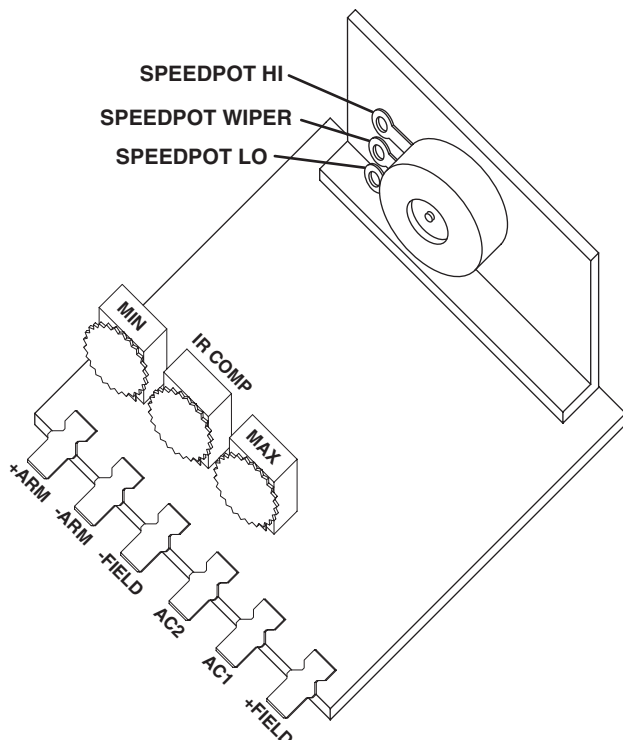
HOOK-UP & TERMINAL IDENTIFICATION

- 1) Before attempting to wire the control, make sure all power is turned off.
 - 2) Use a normal blow fuse, wired in series with hot side of AC input, rated to 125% of motor current. Note: Both AC lines should be fused for 240 VAC input.
- CAUTION SHOULD BE USED IN SELECTING THE SIZE OF HOOK-UP WIRING. LIMIT THE VOLTAGE DROP THROUGH THE WIRING TO 5% OF THE LINE VOLTAGE AT FULL LOAD.
- 3) +ARM: Connect to plus (+) Armature wire on motor. 0-90 VDC for 120 VAC input, and 0-180 VDC for 240 VAC input.
 - 4) -ARM: Connect to minus (-) Armature wire on motor.
 - 5) -FIELD: Connect to minus (-) Field wire of Shunt Wound Motor.
 - 6) AC1 and AC2: 120 VAC - Connect incoming hot AC (black wire) to AC1 and neutral (white wire) to AC2
240 VAC - Connect both hot sides, one to AC1 and one to AC2.
 - 7) +FIELD: Do not use for permanent magnet motor. This supplies +Field voltage for a Shunt Wound Motor. For motors with dual voltage field (ie; 50/100V or 100/200V), make sure the highest value is connected.

CAUTION: DO NOT ATTEMPT TO PERFORM A HI-POT TEST ACROSS AC LINES WITH CONTROL IN CIRCUIT. THIS WILL RESULT IN IMMEDIATE OR LONG TERM DAMAGE TO THE CONTROL.

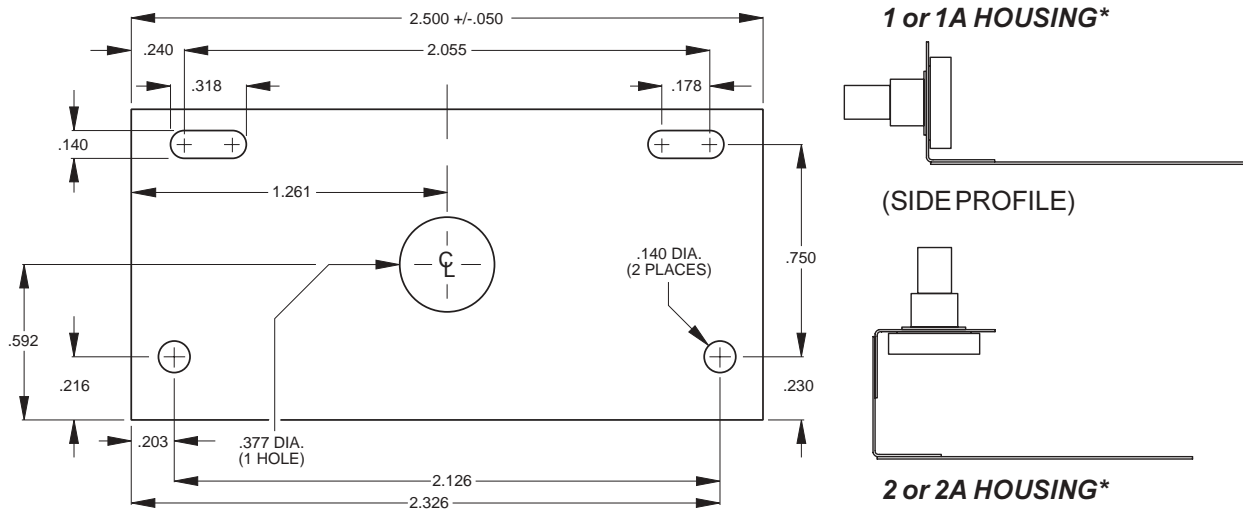
ADJUSTMENTS

- 1) Preset trimpots in the counter-clockwise (CCW) position.
- 2) Apply power.
- 3) Rotate the Speedpot fully CW and adjust MAX trimpot in the CW direction until the maximum desired speed is obtained.
- 4) Rotate the Speedpot fully counter-clockwise (CCW) and adjust the MIN trimpot in the CW direction until deadband or the minimum desired speed is obtained.
- 5) The IR COMP trimpot is used as a regulation adjustment. If better motor regulation is needed between minimum and maximum loads, then adjust IR COMP trimpot as follows. Rotate the Speedpot CW to the 50% position and rotate the IR COMP trimpot CW as needed to increase regulation.
- 6) Recheck and readjust trimpots if necessary. Trimpot interaction with each other will be minimal.



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HEATSINK DIMENSIONS & IDENTIFICATION



13DVA Rev.A /15DVA Rev.A MODEL SPECIFICATIONS

AC Input Voltage	± 10% Rated Line Voltage
Amps - DC Output	150mA to 2 Amps
Dimensions	13DV1 / 15DV1: 2.80" wide, 1.30" high, 3.30" deep
.....	13DV2 / 15DV2: 2.80" wide, 1.50" high, 3.30" deep
Input Frequency	50 / 60 Hertz
Input Voltage - 13DV	12 VAC or 24 VAC
- 15DV	120 VAC or 240 VAC
I.R. Compensation	Adjustable - full range
Max. Speed	Adjustable (40 - 120% of Base Speed)
Min. Speed	Adjustable (0 - 30% of Max)
Output Voltage - 13DV (12 or 24 VAC Input)	0-12 or 0-24 VDC
- 15DV (120 or 240 VAC Input)	0-105 or 0-210 VDC
Overload Capacity	200% for 1 minute
Shunt Field Voltage - 13DV	1 Amp max, 10 VDC at 12 VAC
.....	1 Amp max, 20 VDC at 24 VAC
- 15DV	1 Amp max, 100 VDC at 120 VAC
.....	1 Amp max, 200 VDC at 240 VAC
Speed Control	5K Ohm Speed Potentiometer
Speed Range	25:1
Speed Regulation	± 1% of Base Speed
Temperature Range	-10° to 45° C. Ambient (15° to 115° F.)
Transient Protection	G-Mov
Weight	13DV1A / 15DV1A weighs 2.64 oz.
.....	13DV2A / 15DV2A weighs 3.03 oz.

With suitable external heatsink, current can be increased to 4 Amps. The 13DV/15DV heatsink temperature should not exceed 70° C. Equivalent to 4" x 4" x 0.125" thick aluminum plate mounted to housing.