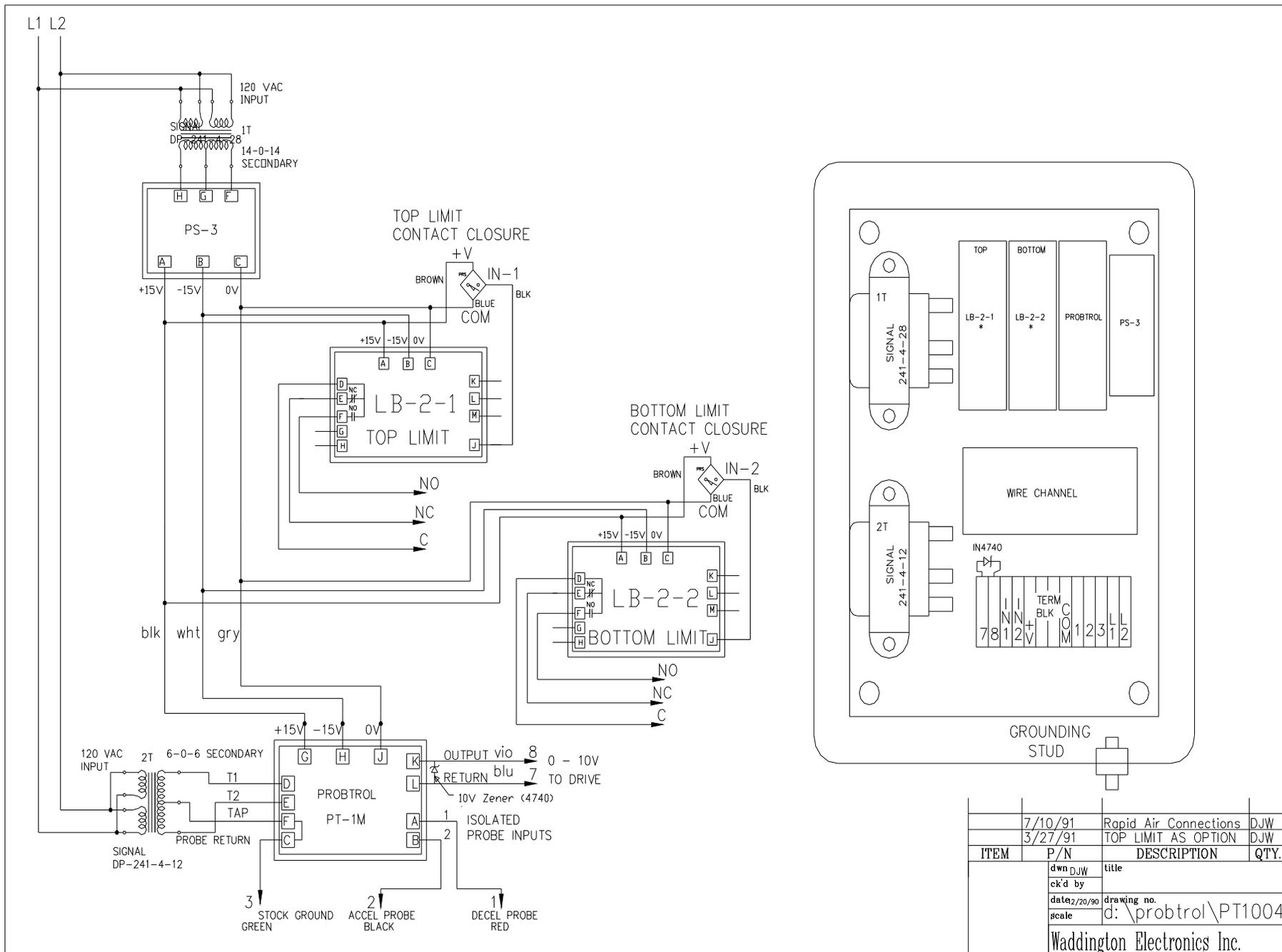
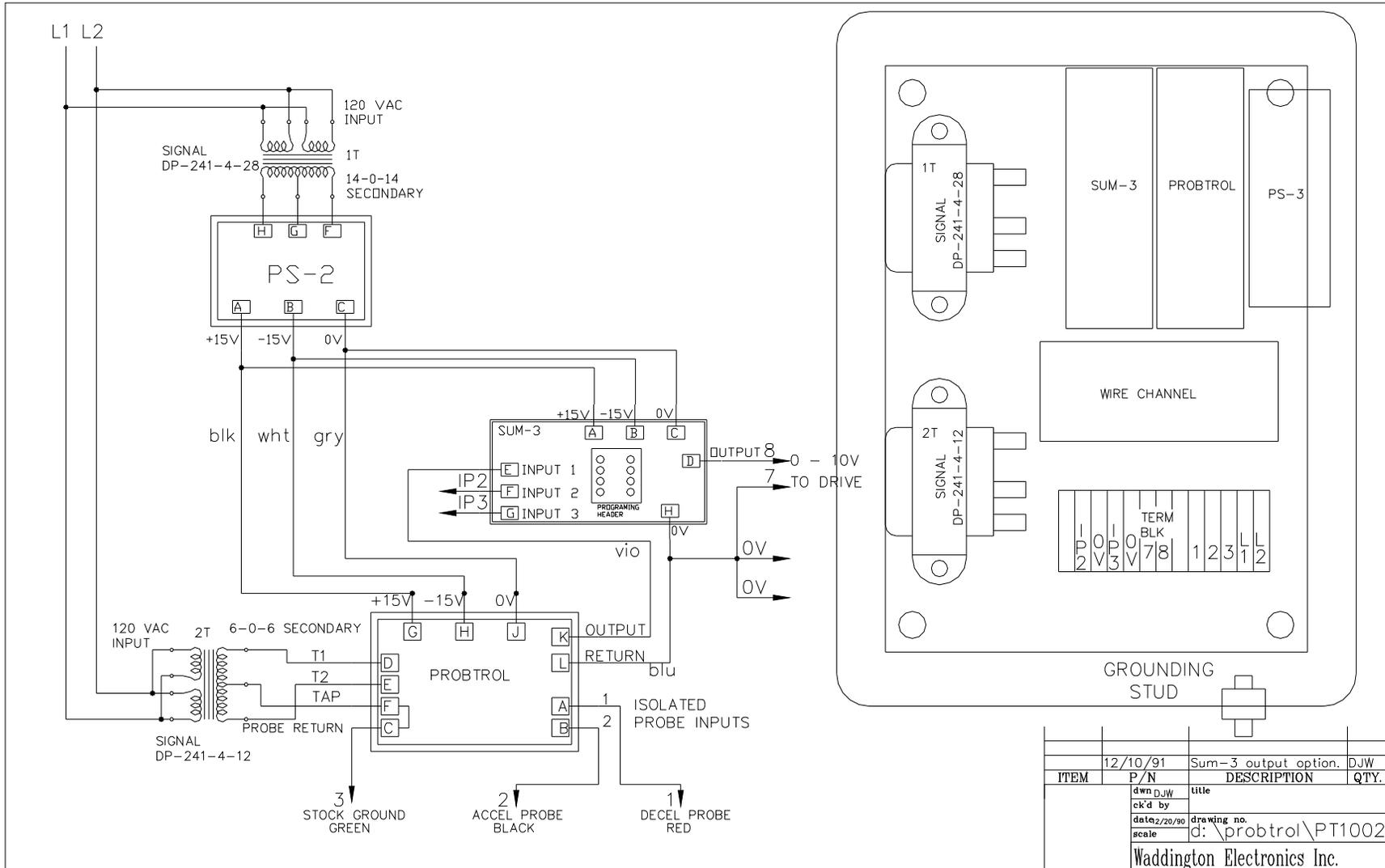


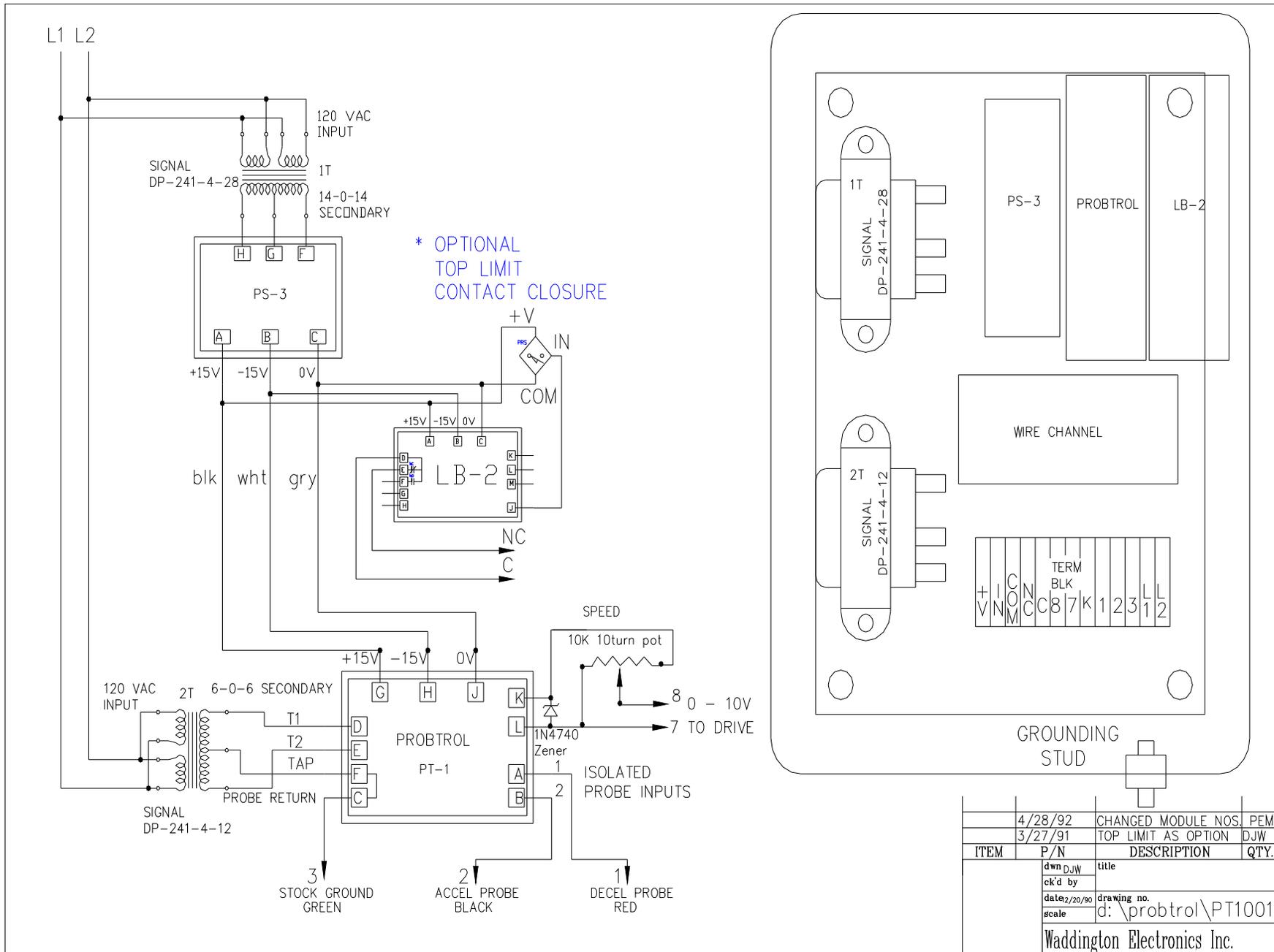
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	scale		
Waddington Electronics Inc.			



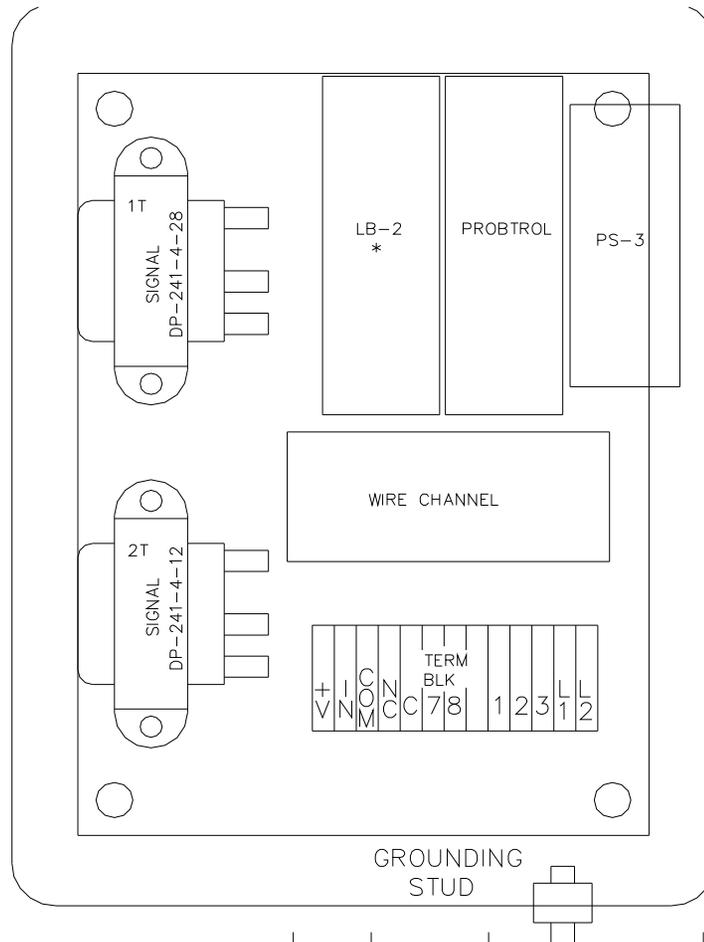
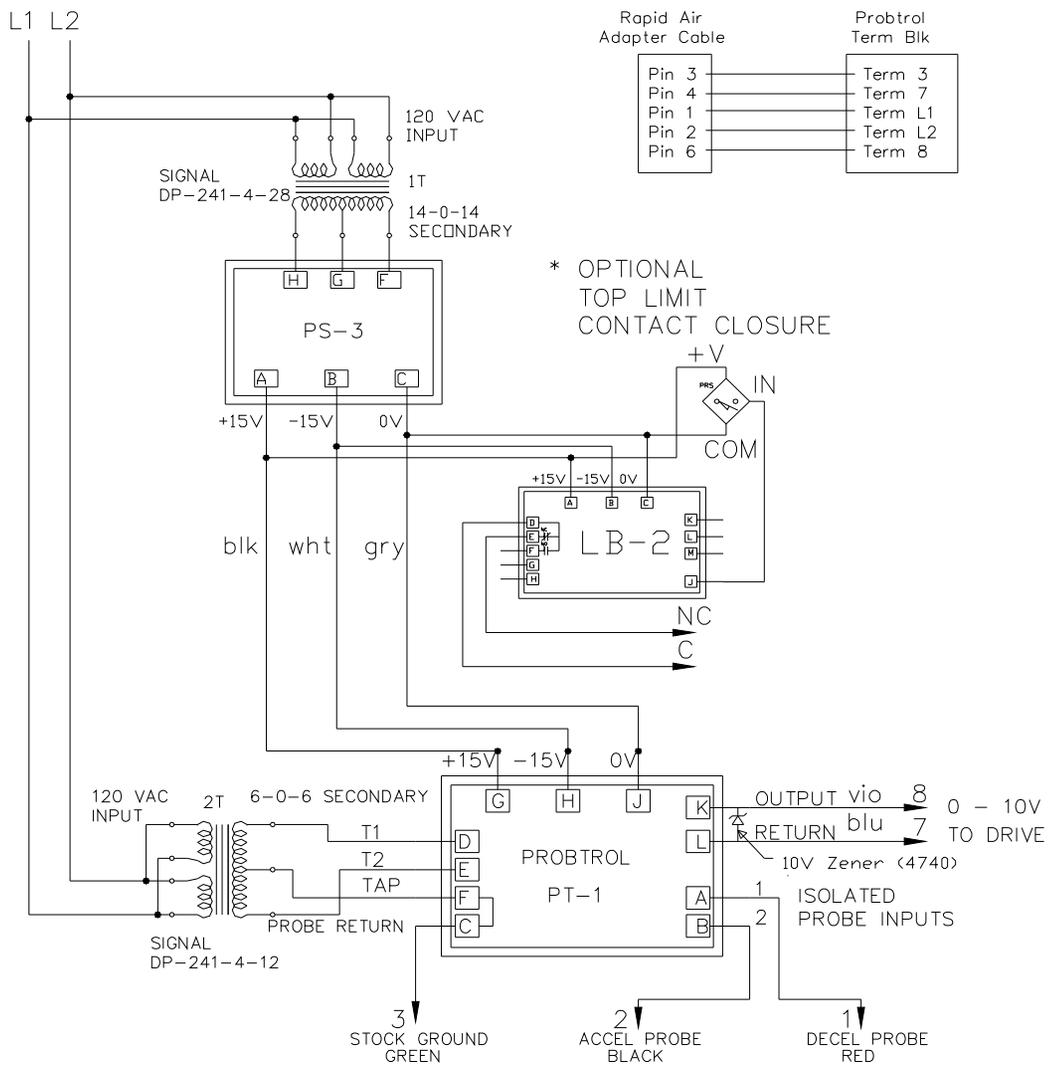
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Waddington Electronics Inc.			



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Waddington Electronics Inc.			



	4/28/92	CHANGED MODULE NOS.	PEM
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Waddington Electronics Inc.			



	7/10/91	Rapid Air Connections	DJW
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ITEM	P/N	DESCRIPTION	QTY
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Waddington Electronics Inc			

Probe-Trol

Users Manual

Model #

Serial #

PROBE-TROL ASSEMBLY INSTRUCTIONS

PARTS LIST

- 1 Probe-Trol Stand
- 1 Probe-Trol Enclosure (Attached to 2 Antenna Mounting Brackets)
- 2 Whip Antennas
- 1 Small Allen Wrench
- 1 Set Instruction Sheets

ASSEMBLY

For Payout Applications

Slide the mounting bracket that is attached to the red cord onto the post first, with the antenna end over the long part of the stand base. Tighten it near the lower limit of where the stock will run. Fasten the bracket fastened to the black cord near the upper limit of where the stock will run. Fasten the enclosure to the top of the post, facing away from the antennas so that the adjustments can be easily made while the line is in motion.

For Takeup Applications

The positions of the antennas must be reversed, so slide the mounting bracket that is attached to the black cord onto the post first, with the

antenna end over the long part of the stand base. Tighten it near the lower limit of where the stock will run. Fasten the bracket fastened to the red cord near the upper limit of where the stock will run. Fasten the enclosure to the top of the post, facing away from the antennas so that the adjustments can be easily made while the line is in motion.

Insert the two whip antennas into the mounting brackets and tighten with the enclosed allen wrench. Attach a wire from the ground stud, on the bottom of the enclosure, to a convenient place on the chassis of the motor or spindle. Make sure that the connection makes firm electrical contact. The resistance between the actual stock and the ground stud should be nearly zero ohms.

Attach the Probe-Trol outputs, terminals 7 and 8 on the internal terminal block, to the velocity control inputs of the drive. Attach 120 Volts AC to the line terminals L1 and L2 on the terminal block (see wiring diagram).

PROBE-TROL ADJUSTMENT PROCEDURES

INSTALLATION

For payout applications, the probes are mounted to the stand with the decelerate probe (attached to the red coil cord) at the bottom, and the accelerate probe (attached to the black coil cord) at the top. The stock will travel between the probes.

For takeup applications, the decelerate probe should be mounted on the top, and the accelerate probe should be mounted on the bottom.

Make a firm electrical connection from the ground stud on the bottom of the Probe-Trol enclosure to the chassis of the motor or spindle. The resistance should be almost zero ohms between the actual stock and the Probe-Trol grounding stud.

CALIBRATION

The Probe-Trol user settings are a base speed adjustment (controlled by P3) a speed zeroing adjustment (controlled by P4) and acceleration and deceleration ramp adjustments (controlled by P1 and P2).

STEP 1 - SETTING BASE SPEED

Adjust P3 to set the base speed of the motor to match the line speed when the rolls are full. P3 increases the base speed when adjusted clockwise.

STEP 2 - ZEROING THE MOTOR SPEED

Ground red probe and adjust P4 until the drive stops. P4 decreases the speed when adjusted clockwise. This stops the motor when the line is stopped and the stock is lying on the red probe. The voltage at the outputs to the drive should be 0 volts.

At this point, temporarily grounding the black probe should cause the drive to step up and hold its speed, while temporarily grounding the red probe will cause the drive to step down and hold its speed. Holding the red probe to ground should eventually stop the drive.

STEP 3 - SETTING THE ACCELERATION AND DECELERATION

RAMPS

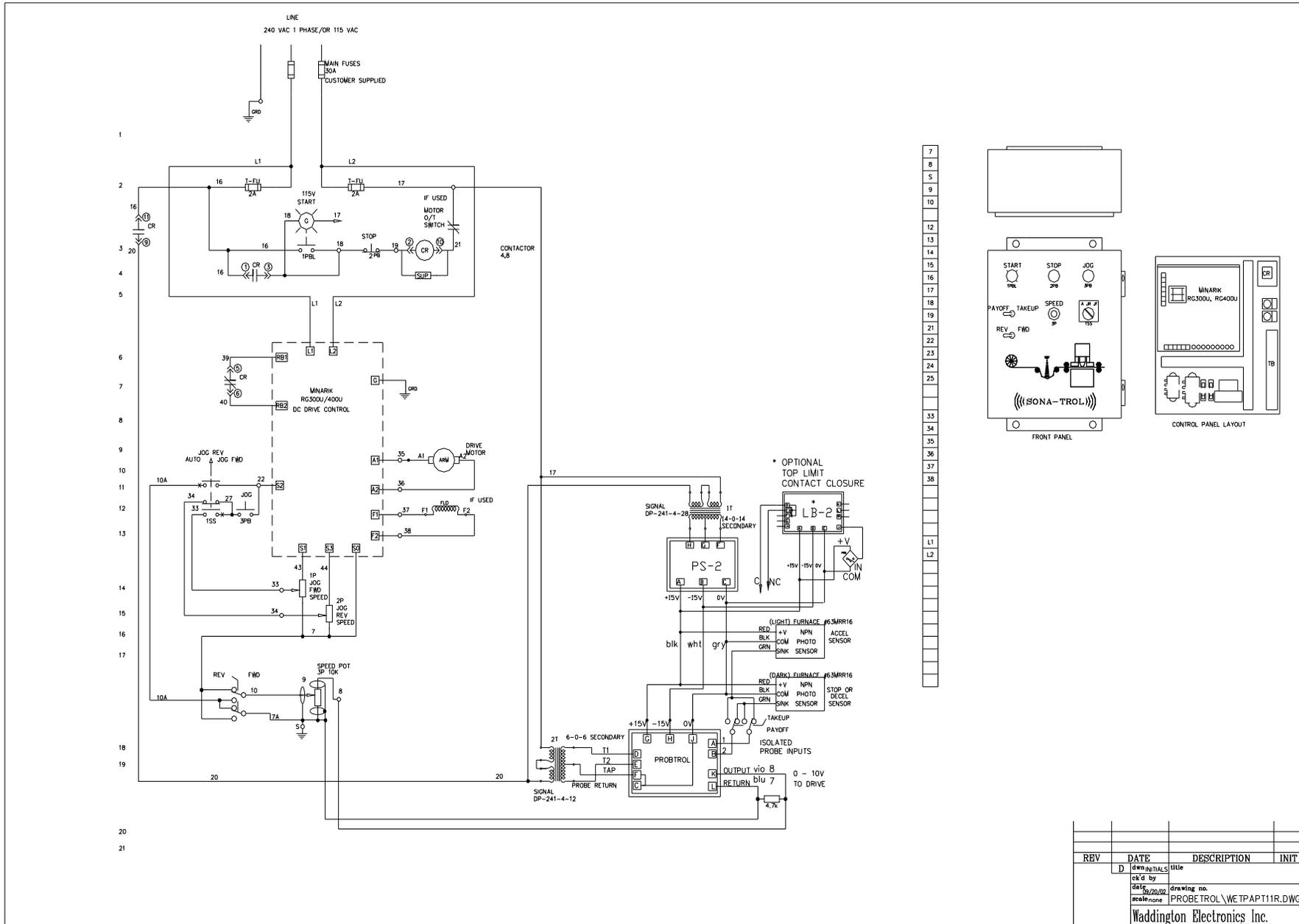
To adjust for a faster acceleration when the stock touches the black probe, adjust P1 clockwise. For slower acceleration, adjust P1 counter clockwise.

To adjust for a faster deceleration when the stock touches the red probe, adjust P2 counter clockwise. For slower deceleration, adjust P2 clockwise.

Fine adjustments may be needed for the Probe-Trol to operate smoothly with the line.

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www.waddingtonelectronics.com

Example Probetrol with DC Regen Drive



REV	DATE	DESCRIPTION	INIT
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Waddington Electronics Inc.			