INSTRUCTION BOOKLET FOR

CONTACT LOOP CONTROL
MODEL #: VS-CLC-1

MANUFACTURERS OF COIL HANDLING EQUIPMENT
Durant Tool Company

200 Circuit Drive • North Kingstown, Rhode Island 02852 • USA
International Phone: 401-781-7800 • Toll Free: 800-338-7268 • Fax: 401-738-2586 •
• Internet Address: www.durantco.com •

12/03

ATTENTION: PLANT MANAGER

Thank you for purchasing Durant equipment. Enclosed are very important safety instructions, operating instructions, and setup procedures.

Read all these materials completely and carefully. Please distribute copies to your SAFETY MANAGER, PRODUCTION MANAGER, and MACHINE OPERATORS.

If there is any help required in setup or operation, we will be readily available for your assistance.

Thank you again and we look forward to developing and maintaining a fine relationship with your company.

Sincerely,

DURANT TOOL COMPANY

SAFETY INSTRUCTIONS FOR ALL DURANT EQUIPMENT

The enclosed information and instructions must be forwarded and distributed to the Plant Safety Director, Plant Manager, Production Manager, and all Operators of Durant equipment.

Operators of Durant equipment must have a minimum of (3) three years operating experience with similar Durant press room equipment or a minimum of (3) three years experience with identical equipment manufactured by other press room equipment manufacturers.

WARNING

Never operate, install, or maintain this machine without understanding the complete and safe operation thereof.

It is the employer's responsibility to provide proper safety devices and equipment to safeguard the operator from harm and to safeguard this machine at all times to meet all current government safety codes and standards.

CAUTION

All Durant equipment must be securely fastened to the floor. This will prevent the machine from tipping. Failure to follow the above instructions could cause harm to the operator or machine.

ATTENTION

If any danger points are observed:

1. Immediately stop machine.
2. Do not run machine until danger point is eliminated.
3. Report danger point in writing to your employer.
4. Keep a copy of your report for your records.
5. Do not run machine again until danger point has been corrected.
6. It is your employer's responsibility to safeguard this machine to meet all government safety codes and standards.
7. There are U.S. companies that specifically specialize in safe guarding machines to plant requirements and government codes. The safe guarding companies are located throughout the United States, Canada, and foreign countries. Representatives will visit your site to advise and recommend safe guarding procedures for your company.

IMPORTANT

Before the first use and monthly thereafter, all nuts, screws, and bolts should be checked for tightness. Gears, sprockets, chains, and belts should also be checked for tightness.

Grease and oil fittings and reducers monthly.

VS-CLC-1
ANTENNA-TRACKER™ CONTROLLER

MECHANICAL SETUP:

1. Antenna stand is supplied in one piece.
2. The main enclosure which is 8”H x 6”W x 6”D (oiltight) and is to be mounted to antenna stand via bracket supplied on back of enclosure.
3. Unwind applications: Red antenna to be located at the bottom of the stand. Black antenna to be located at the top of the stand.
   Rewind applications: Black antenna to be located at the bottom of the stand. Red antenna to be located at the top of the stand.

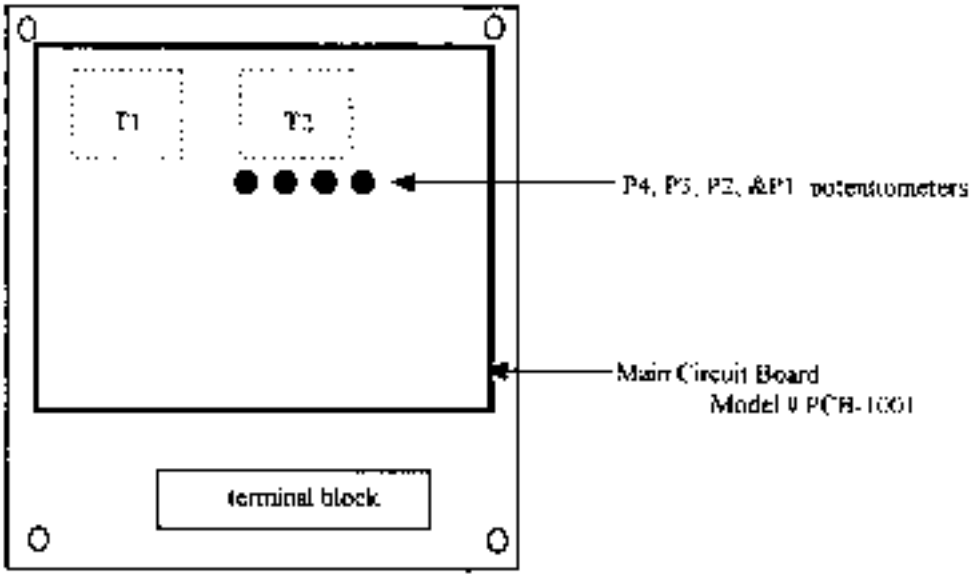
WIRING SETUP:

1. Connect 115 vac to terminals L1 & L2.
2. Connect leads from antennas colored red & black to terminal blocks Z (red), A (black).
3. Terminal G is to be connected to earth ground. There is a ground stud located on the back of the enclosure.
   [Note: Your material and equipment must be earth ground for this system to function.]
4. Terminals 1(+) & 2 (-) are the output terminals. Output equals, an isolated **0-10vdc** signal

***Optional:** Top Stop Feature

1. Connect top stop sensor to terminals 11, 12 & 13.
2. Top Stop relay terminals are: 19 = com., 17 = N.C., & 18 = N.O. [Located on main board.]

MAIN CHASSIS LAYOUT



CALIBRATION PROCEDURE:

1. Material or loop is to be placed between the Black & Red antennas. Make a firm electrical connection from the ground stud on enclosure to the material or equipment. The resistance should be zero ohms between the actual material and the ground stud.

2. Place material or loop at its lowest point touching bottom antenna (red) and adjust P4 until motor speed or output is zero volts. [Note: this stops the motor when the line is stopped and the stock is lying on the red antenna.] **Factory Set.**

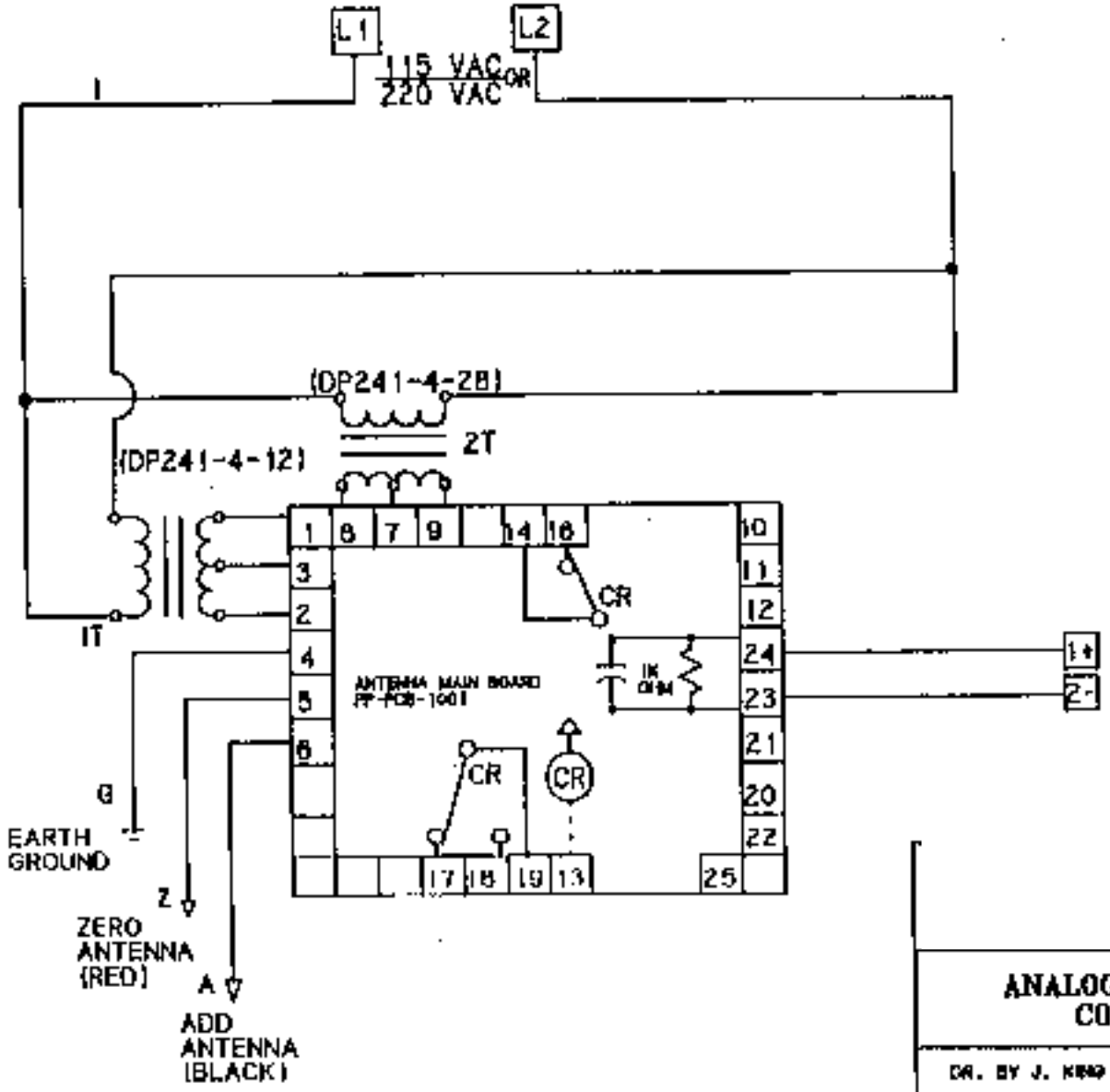
3. Place material or loop at the desired running speed height or between the antennas. Adjust P3 so that motor speed is at desired line speed. [Note: This adjustment is best made when there is no material on the reel for operators safety.] P3 increases the base speed when adjusted CCW. **Factory Set at 2 vdc output.**

4. To adjust for a faster acceleration when the material touches the top (black) antenna, turn P1 CW. For slower acceleration, adjust P1 CCW. **Factory Set at 30% of maximum.**

5. To adjust for a faster deceleration when the material touches the bottom (red) antenna, adjust P2 CW. For slower deceleration, adjust P2 CCW. **Factory Set at Fastest Deceleration.**

6. To set for 0-100% Speed Output set the potentiometer on the cover of the main enclosure to desired setting. (CW = Full Output).

7. *Optional Top Stop sensor: When Top antenna bends upward in an emergency tight loop situation the sensor will sense the antenna and energize the relay on the main circuit board. The sensor may be adjusted up & down to change top stop sensetivity. No electronic adjustments required.
Factory Set.



ANALOG OUTPUT ANTENNA CONTROL SYSTEM

DR. BY J. KING	CHK. BY K.T.	DR. NO. MCA-1003
DATE 6/21/96	(APPROX.) SCALE	SHEET