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| REV. | DATE | DESCRIPTION | APP |
|------|----------|------------------------------|-----|
| P | 10/26/07 | TRANSFORMER WIRED DIFERENTLY | JA |
| REV. | DATE | DESCRIPTION | APP |

TOLERANCES
UNLESS OTHERWISE NOTED
.X = ±.05"
.XX = ±.015"
.XXX = ±.005"
.XXXX = ±.0005"
ANGLES = ±1/2°
FRACTIONS = ±1/64"

MATERIAL:
FINISH:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.
REMOVE ALL SHARP EDGES.
CONFORMANCE: ASME Y14.5M-1994

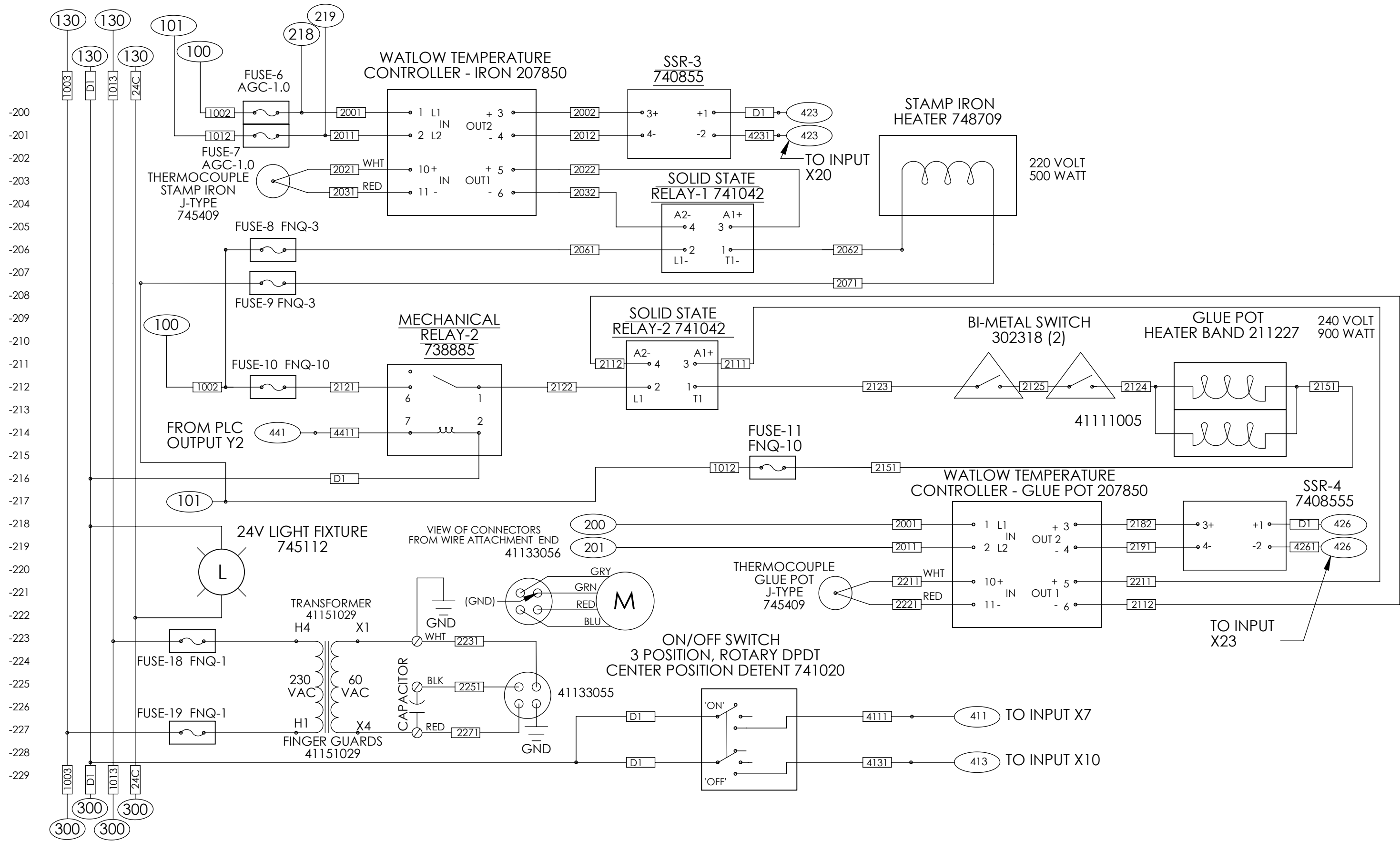
PRODUCT: VL-10
SHEET: 1 OF 7

MEYERCORD REVENUE
475 Village Drive
Carol Stream, Illinois 60188

**SCHEMATIC DIAGRAM
(MAIN 220 AND SAFETY)**

DESIGN: DRAWN:
SCALE: 1:1 APPRD: **736037 P**
DWG REV

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| REV. | DATE | DESCRIPTION | APP |
|------|----------|------------------------------|-----|
| P | 11/02/07 | TRANSFORMER WIRED DIFERENTLY | JA |

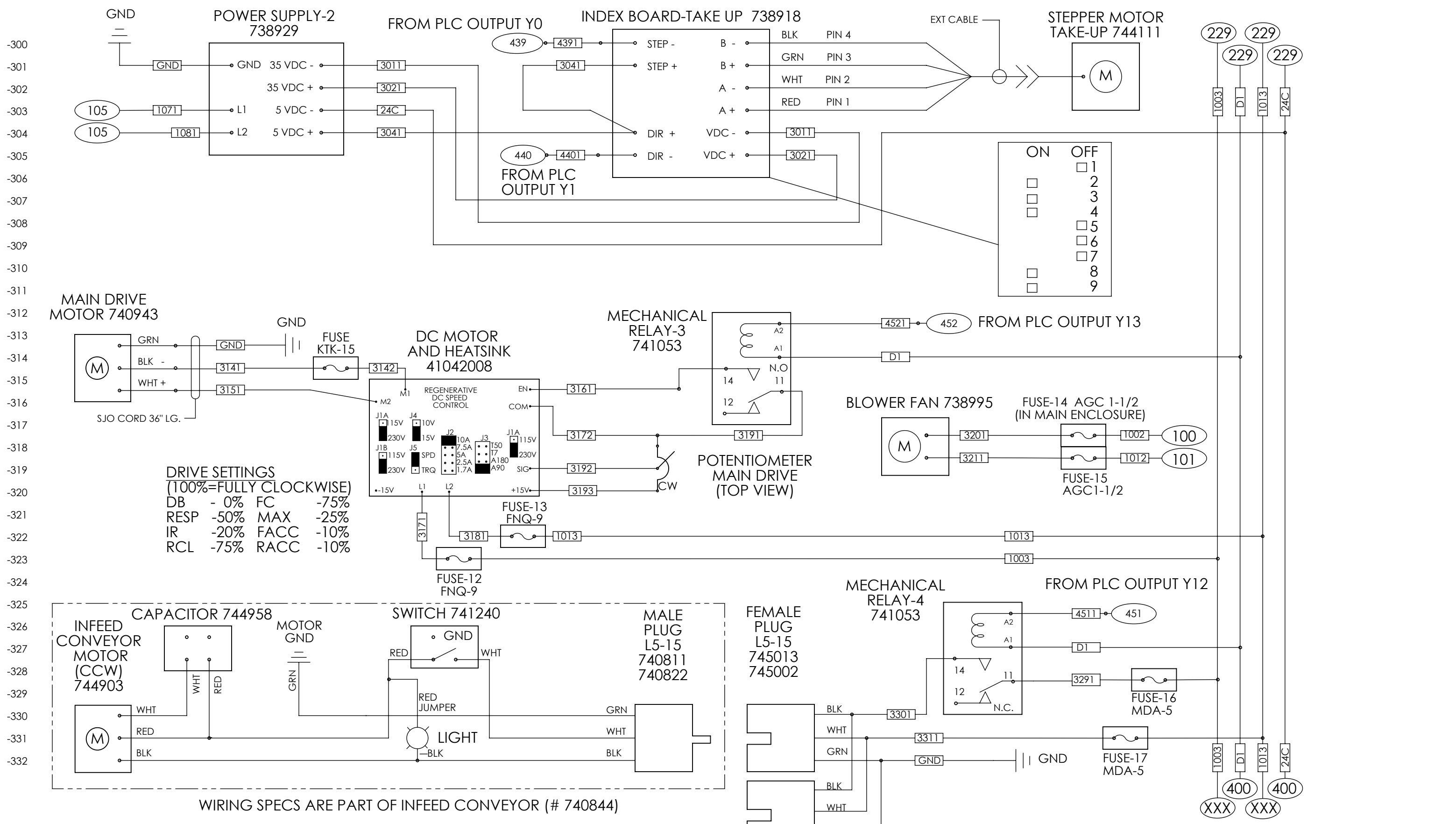
TOLERANCES
UNLESS OTHERWISE NOTED
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.XX = ±.015"
.XXX = ±.005"
.XXXX = ±.0005
ANGLES = ±1/2°
FRACTIONS = ±1/64"

MATERIAL:

FINISH:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.
REMOVE ALL SHARP EDGES.
CONFORMANCE: ASME Y14.5M-1994

| | |
|---------------------------------------|--|
| PRODUCT: VL-10 | MEYERCORD REVENUE 475 Village Drive Carol Stream, Illinois 60188 |
| SHEET: 2 OF 7 | |
| SCHEMATIC DIAGRAM (MAIN POWER) | |
| DESIGN: [] | DRAWN: [] |
| SCALE: 1:1 | APPRD: [] |
| 736037 P | |



NOTE: FOR LATERAL PACKING CONVEYOR WIRING SEE VL-10 GENERATION 2 ELECTRICAL PACKAGE

| REV. | DATE | DESCRIPTION | APP |
|------|----------|------------------------------|-----|
| P | 11/02/07 | TRANSFORMER WIRED DIFERENTLY | JA |
| REV. | DATE | DESCRIPTION | APP |

TOLERANCES UNLESS OTHERWISE NOTED
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 .XX = ±.015"
 .XXX = ±.005"
 .XXXX = ±.0005
 ANGLES = ±1/2°
 FRACTIONS = ±1/64"

MATERIAL:
FINISH:

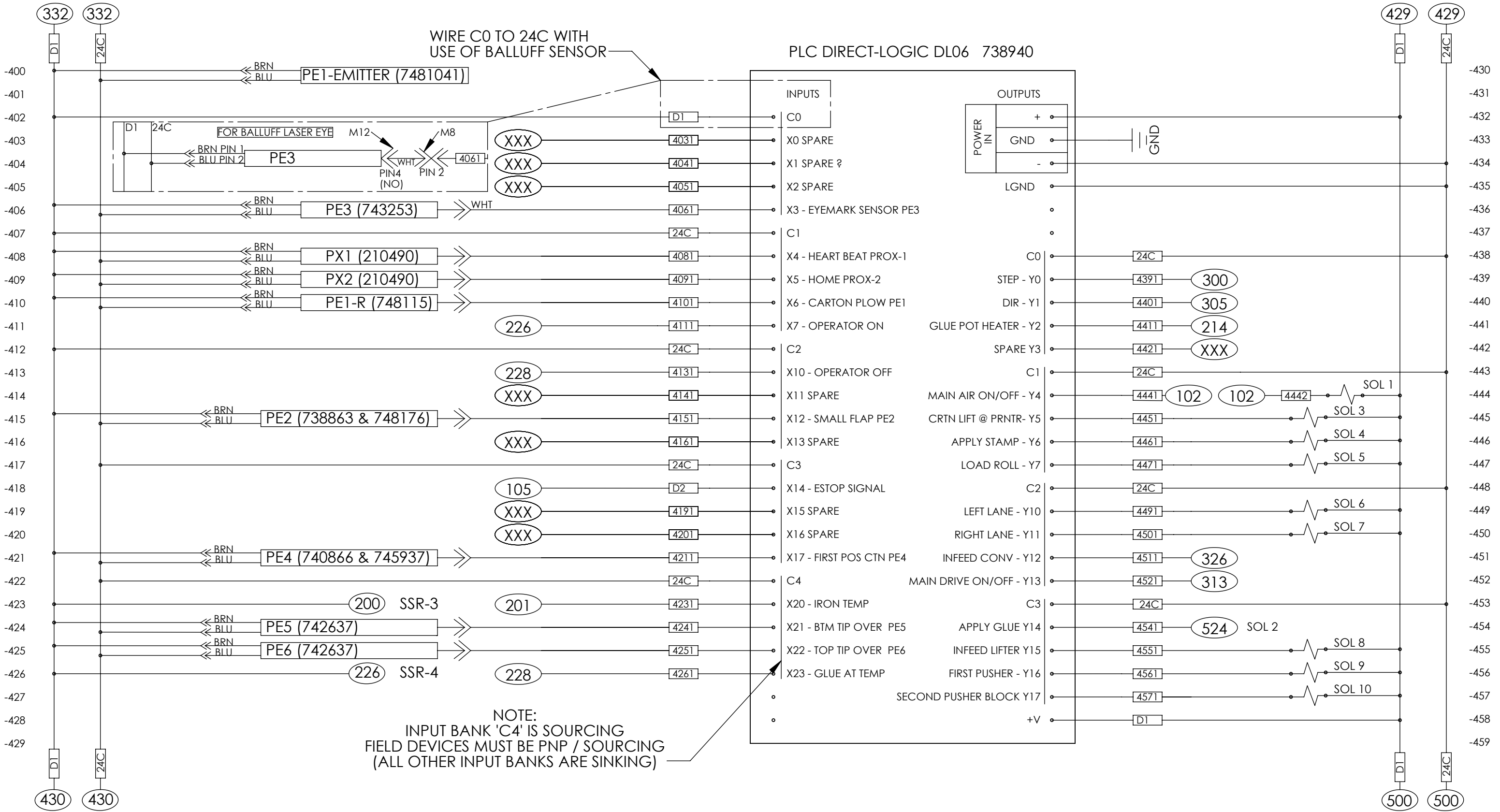
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.
 REMOVE ALL SHARP EDGES.
 CONFORMANCE: ASME Y14.5M-1994

PRODUCT: VL-10
 SHEET: 3 OF 7

MEYERCORD REVENUE
 475 Village Drive
 Carol Stream, Illinois 60188

SCHEMATIC DIAGRAM (ELECTRICAL BOX NO. 2)

DESIGN: SCALE: 1:1
 DRAWN: APPRD:
736037 P
 DWG



NOTE:
INPUT BANK 'C4' IS SOURCING
FIELD DEVICES MUST BE PNP / SOURCING
(ALL OTHER INPUT BANKS ARE SINKING)

| REV. | DATE | DESCRIPTION | APP |
|------|----------|------------------------------|-----|
| P | 11/02/07 | TRANSFORMER WIRED DIFERENTLY | JA |

TOLERANCES
UNLESS OTHERWISE NOTED
.X = ±.05"
.XX = ±.015"
.XXX = ±.005"
.XXXX = ±.0005
ANGLES = ±1/2°
FRACTIONS = ±1/64"

MATERIAL:
FINISH:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.
REMOVE ALL SHARP EDGES.
CONFORMANCE: ASME Y14.5M-1994

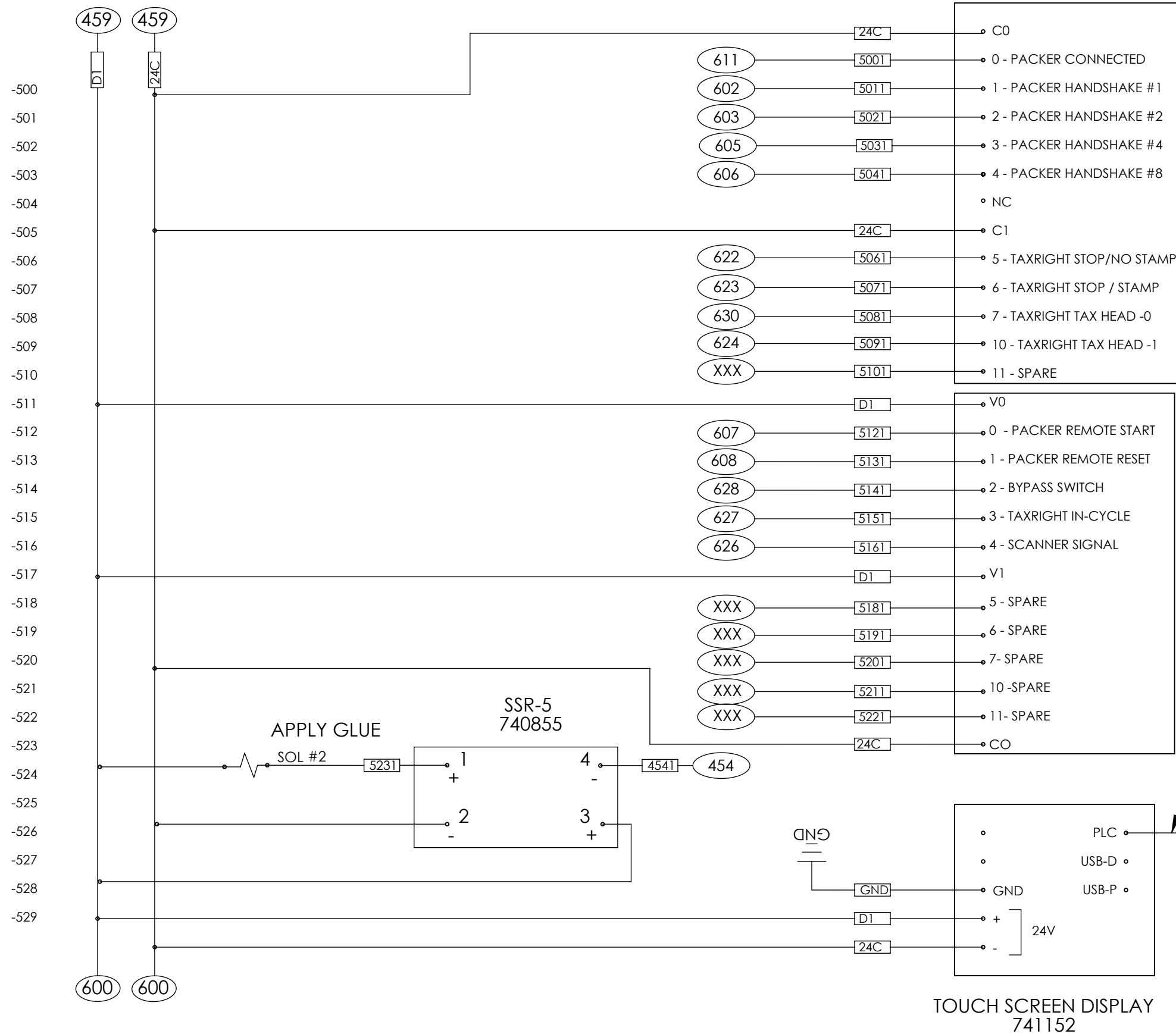
PRODUCT: VL-10
SHEET: 4 OF 7

MEYERCORD REVENUE
475 Village Drive
Carol Stream, Illinois 60188

**SCHEMATIC DIAGRAM
(MAIN PLC I/O)**

DESIGN: SCALE: 1:1
DRAWN: APPRD:
DWG

736037 P



DO-10ND3 EXPANSION MODULE 738962

SOLENOID OUTPUT TABLE

| | | | |
|-----|-----|--------------------------|-----|
| 1) | S1 | MAIN AIR (ON/OFF) | Y14 |
| 2) | S2 | GLUE APPLY | Y4 |
| 3) | S3 | CARTON LIFTER AT PRINTER | Y5 |
| 4) | S4 | APPLY STAMP | Y6 |
| 5) | S5 | LOAD ROLL | Y7 |
| 6) | S6 | LEFT LANE | Y10 |
| 7) | S7 | RIGHT LANE | Y11 |
| 8) | S8 | INFED LIFTER | Y15 |
| 9) | S9 | FIRST PUSHER | Y16 |
| 10) | S10 | 2ND PUSHER | Y17 |

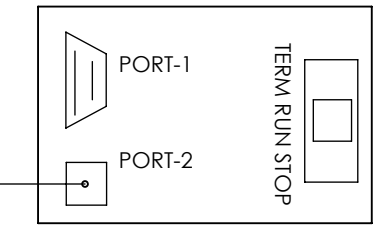
DO-10TD2 EXPANSION MODULE (SOURCING)

SENSOR INPUT TABLE

| | | | |
|----|--------|--------------------------|-----|
| 1) | PE-1 | CARTON TO PLOW | X6 |
| 2) | PE-2 | SMALL FLAP | X12 |
| 3) | PE-3 | EYEMARK | X3 |
| 4) | PE-4 | CARTON AT FIRST POSITION | X17 |
| 5) | PE-5 | TOP TIP OVER | X21 |
| 6) | PE-6 | BOTTOM TIP OVER | X22 |
| 7) | PROX-1 | HEART BEAT | X4 |
| 8) | PROX-2 | HOME | X5 |

GREEN FLAT CABLE (RJ-12 PLC/RS232 TOUCH SCREEN)

MAIN PLC DL06 738940



TOUCH SCREEN DISPLAY 741152

| | | | |
|------|----------|------------------------------|-----|
| N | 11/02/07 | TRANSFORMER WIRED DIFERENTLY | JA |
| REV. | DATE | DESCRIPTION | APP |

TOLERANCES UNLESS OTHERWISE NOTED
 .X = ±.05"
 .XX = ±.015"
 .XXX = ±.005"
 .XXXX = ±.0005
 ANGLES = ±1/2°
 FRACTIONS = ±1/64"

MATERIAL:
 FINISH:
 ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.
 REMOVE ALL SHARP EDGES.
 CONFORMANCE: ASME Y14.5M-1994

PRODUCT: VL-10
 SHEET: 5 OF 7
 MEYERCORD REVENUE
 475 Village Drive
 Carol Stream, Illinois 60188

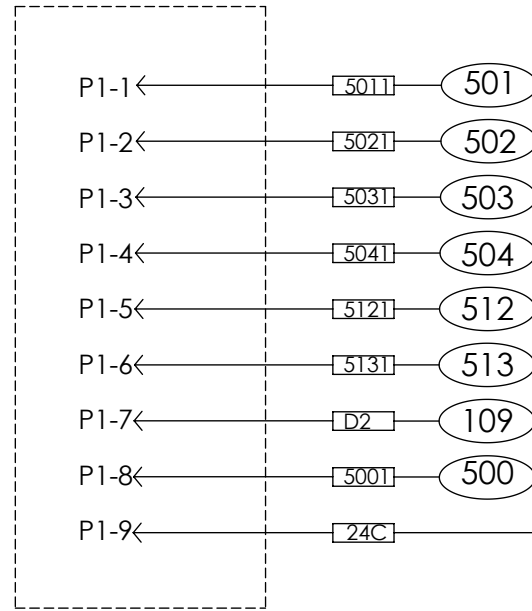
SCHEMATIC DIAGRAM (PLC EXPANSION)

DESIGN: DRAWN: 736037 N
 SCALE: 1:1 APPRD: DWG

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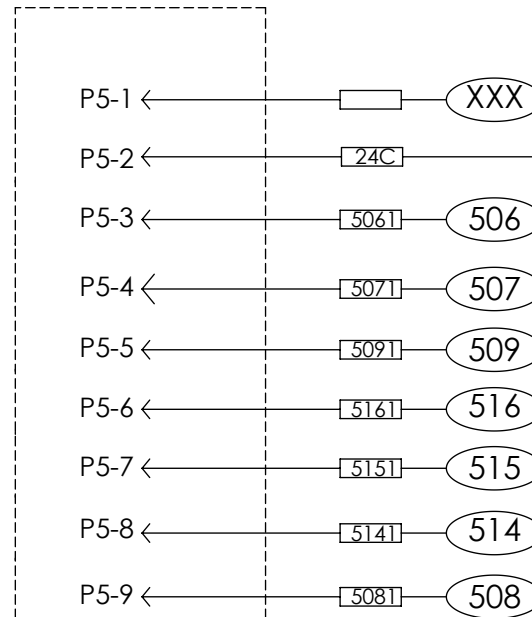
CIGARETTE CARTON PACKER
TO MAIN MACHINE
9 PIN AMP CONECTOR

HANDSHAKE LINE '1'
HANDSHAKE LINE '2'
HANDSHAKE LINE '4'
HANDSHAKE LINE '8'
REMOTE START
REMOTE RESET
PACKER CONNECTED
PACKER CONNECTED
24 COMMON

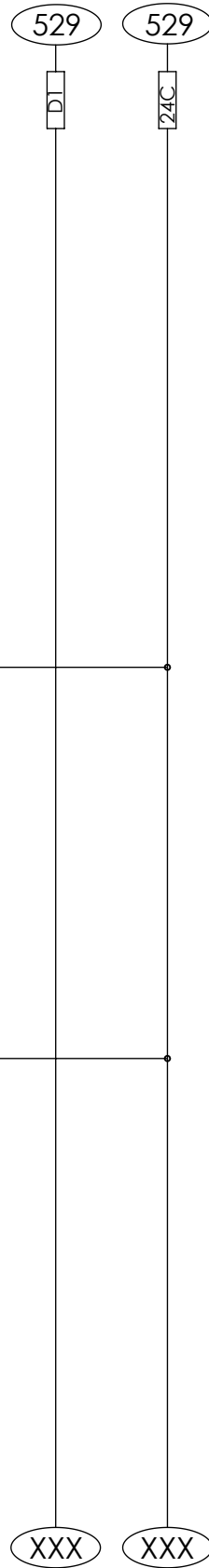


TAX-RIGHT INTERFACE
AMP 9 PIN
'P5'
[11258]

24V DC
24V COMMON
STOP/NO STAMP
STOP/ STAMP
TAX HEAD-1
SCANNER SIGNAL
IN-CYCLE
BYPASS SWITCH
TAX HEAD - 0



FLANGE MOUNT
MAIN ENCLOSURE



| | | | |
|------|----------|------------------------------|-----|
| P | 11/02/07 | TRANSFORMER WIRED DIFERENTLY | JA |
| REV. | DATE | DESCRIPTION | APP |

TOLERANCES
UNLESS OTHERWISE NOTED
.X = ±.05"
.XX = ±.015"
.XXX = ±.005"
.XXXX = ±.0005"
ANGLES = ±1/2°
FRACTIONS = ±1/64"

MATERIAL:

FINISH:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.
REMOVE ALL SHARP EDGES.
CONFORMANCE: ASME Y14.5M-1994

PRODUCT: VL-10
SHEET: 6 OF 7

MEYERCORD REVENUE
475 Village Drive
Carol Stream, Illinois 60188

**SCHEMATIC DIAGRAM
(INPUT TERMINALS)**

DESIGN: SCALE: 1:1
DRAWN: APPRD:
736037 P
DWG REV

| SETUP MENU | | | |
|--------------|--|----------|--|
| DISPLAY | PARAMETER NAME DESCRIPTION | SETTINGS | RANGE INTEGER VALUES FOR MODBUS IN PARENTHESES |
| [SEn] | Sensor Type Set the analog sensor type. | TC | [tc] thermocouple (0) |
| [Lin] | Thermocouple Linearization Set the analog input thermocouple linearization. | J | J(0) |
| [C-F] | Temperature Units Set the temperature units for the thermocouple and RTD inputs. | F | F(0) |
| [S.dEC] | Temperature Decimal Places Set the decimal places for the displayed input value for thermocouple and RTD types. | 0 | 0(0) |
| [IS.En] | INFOSENSE enable the sensor feature, which synchronizes the controller with a Walflow sensor. | no | no(0) |
| [SP.li] | Set Point Low Limit Set the low range for the set point. | tc(32) | Min. operating range(of sensor) to [SP.Hi] -0.100: If [SEn] is set to [tc] -328 to [SP.hi]-0.100 |
| [SP.hi] * | Set Point High Limit Set the high range for the set point. | 400 | [r9.Lo] to max. operation range (of sensor): if [SEn] is set to [tc] [SP.Lo] +0.100 to 1472 (set Precision with [P.dec] Process Decimal Places) |
| [Ftr.E] | Input Filter Select filtering action. | OFF | [Off] no filtering (0) |
| [OT 1] | Output 1 Function Set the output 1 function. | heat | Heat Control (3) |
| [Ctr1] | Control Method 1 Set output 1 control type. This parameter is only used with PID control, but can be set anytime. | Ftb | Fixed Time Base (0) |
| [Ftb1] | Fixed Time Base 1 (Cycle Time) Set the time base for Fixed Time Base Control. | 1.0 | 1.0 to 60.0 seconds (100 to 60000) |
| [PL 1] | Power Limit Set maximum output for a control output. | 100 | 0.0 to 100.0% power (000 to 10000) |
| [PSL1] | Output Power Scale Low 1 Set low end of the range within which the output will scale. | 0 | 0.0 to 100.0% (000 to 10000) |
| [PS.hi] * | Output Power Scale High 1 Set the high end of the range within which the output will scale. | 400 | 0.0 to 100.0% (000 to 10000) |
| [nLF1] | Output Nonlinear Function 1 Select a nonlinear output curve to match the response of your system. | off | off (0) |
| [O12] * | Output 2 Function Set the output 2 function. | dE.AL | Deviation Alarm |
| [hYS2] | Alarm 2 Hysteresis Set the hysteresis for an alarm. This determines how far into the safe region the input needs to move before the alarm can be cleared. | 1 | 0.0 to 999.0 |
| [Lgc2] | Alarm 2 Logic Select the alarm output condition in the alarm state. | AL C | closed on alarm |
| [LA12] | Alarm 2 Latching Turn alarm latching on or off. | nLat | non-latching-off |
| [SiL2] | Alarm 2 Silencing Turn alarm silencing on or off | OFF | off-no silencing |
| [dSP2] | Alarm 2 Message Displays an alarm message when an alarm is active. | on | on-message |
| [Unit] | Units Of Measurement Set type of units used for applied AC line power source. | US | US(0) |
| [l.Err] | Input Error Latching Turn input error latching on or off | nLat | non-latchings (0) - off |
| [FAIL] * | Input Error Failure Mode Set the input error failure mode when an error is detected and the control changes to manual mode. | off | off (0)-0% power |
| [dSP] | Display Default Select which display appears normally and which display requires processing the [set] Key to access. | Pro | Process normally appears, press [set] key to view set point value (1) |
| [rP] | Ramping Mode Select when the control set point ramps to defined end set point. | OFF | off (0) |
| [LOC] | Lockout Set the security level for the user interface. | 0 | (0) No lockout |

| OPERATING MENU | | | |
|----------------|--|----------|--|
| DISPLAY | PARAMETER NAME DESCRIPTION | SETTINGS | RANGE INTEGER VALUES FOR MODBUS IN PARENTHESES |
| [A-M] | Auto-Manual Mode Set the control mode. | Auto | auto mode (0) |
| [Aut] | Autotune Start an autotune. | off | off (0) |
| [CAL] | Calibration Offset Offset the input reading. | 0 | -999 to 999 (-999000 to 999000) |
| [ht.M] | Heat Control Method Set the heat control method. | PID | PID (0) |
| [Pb.ht] | Proportional Band Heat Set the proportional band for the heat outputs. | 25 | 1 to 999 F, If [SEn] is set to [tc] or [rtd] (1000 to 999000) |
| [rE.ht] | Reset Heat Set the PID reset in repeats per minute for the heat outputs. | 0 | 0.00 to 99.99 repeats per minute (0000 to 99990) |
| [rA.ht] | Rate Heat Set the PID derivative time in minutes for the heat outputs. | 0 | 0.00 to 9.99 minutes (0000 to 9990) |
| [A2.hi] * | Alarm 2 High Set the high alarm set point. | 400 | Deviation: 0 to 9999 |
| [A2.Lo] | Alarm 2 Low Set the low alarm set point. | -15 | Deviation:-1999 to 0 |
| [CC.SP] | Closed Loop Control Set Point Set the control set point to be used when the timer is not active and the controller is in the auto mode. | 305 | Set Point Low Limit [SP.Lo] to Set Point High Limit [SP.hi] [OFF] Stop controlling to SP (-200000001) |

NOTE: DISPLAY ITEMS CONTAINING * ARE NOT DEFAULT SETTINGS

Operating Menu - Hold ∞ key for 3 seconds


Setup Menu - Simultaneously hold up & down arrows for 3 seconds

Factory Default

Stamp Head - set temp : 325

Glue Pot - set temp : 300

Autotune after setting all parameters

| | | | | | | | | |
|--|------|-------------|------------------------------|---------|--|--------------------------------|----------------|---|
| P | | 1 | TRANSFORMER WIRED DIFERENTLY | JA | TOLERANCES UNLESS OTHERWISE NOTED .X = ±.05" .XX = ±.015" .XXX = ±.005" .XXXX = ±.0005 ANGLES = ±1/2° FRACTIONS = ±1/64" | MATERIAL: | PRODUCT: VL-10 |  MEYERCORD REVENUE 475 Village Drive Carol Stream, Illinois 60188 |
| REV. | DATE | DESCRIPTION | APP | FINISH: | | SHEET: 7 OF 7 | | |
| ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED. REMOVE ALL SHARP EDGES. CONFORMANCE: ASME Y14.5M-1994 | | | | | | SCHEMATIC DIAGRAM SETUP | | |
| DESIGN: | | DRAWN: | | 736037 | | SCALE: 2:1 | | APPRD: |
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