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HISTORY		
ISSUE	DESCRIPTION	DATE
B		4/21/10

RECEIVER - 24 VDC @ 500mA MAX
TRANSMITTER - 24 VDC @ 285mA MAX
AUX OUT PNP- 24 VDC @ 100mA MAX

SET MODE SWITCHES SVA AND SVB BEHIND A FLIP DOOR ON THE BOTTOM OF THE RECEIVER UNIT AS FOLLOWS:

	SVA	SVB
FOR AUTOMATIC START EDM DISABLED	SW1 - OFF SW2 - OFF	OFF OFF
SCAN CODE A (Set to match transmitter)	SW3 - OFF	OFF
SCAN CODE B	SW3 - ON	ON
FLOATING/BLANKING DISABLED (1 BEAM)	SW4 - OFF	OFF
FLOATING/BLANKING ENABLED (1 BEAM)	SW4 - ON	ON
FIXED BLANKING DISABLED	SW5 - OFF	OFF
FIXED BLANKING ENABLED	SW5 - ON	ON
SHORT RANGE	SW6 - OFF	OFF
LONG RANGE	SW6 - ON	ON

SET MODE SWITCH BEHIND THE FLIP DOOR ON THE BOTTOM OF THE TRANSMITTER UNIT AS FOLLOWS:

SCAN CODE A (Set to match receiver)	SW1 - OFF
SCAN CODE B	SW1 - ON
MTS DISABLED	SW2 - OFF

Note 1: The white and black wires from the transmitter and the pink wire from the receiver are not used. Cut them off close to the enclosure entrance and tywrap them to the other wires.

LIGHT CURTAIN MODE SWITCHES ON WPC2000 BOARD

SET TO NPN WITH EXTERNAL TEST

TB109 ON EDGE OF WPC2000 BOARD.

(+24VDC)	121
(GND)	122
(DSV RESET)	123
(SPEC 1)	124
(ZERO CAM)	125
(COUNTER)	126
(CHAN 4)	127
(CHAN 3)	128
(CHAN 2)	129
(CHAN 1)	130

ROSS DUAL SAFETY VALVE MODEL DM2

DSV-RELAY BOARD

OUTPUT TO DSV RELAYS
OUTPUT TO MOTOR START
120VAC INPUT FOR DSV/MOTOR START
LOCKOUT TERMINALS

24 VDC POWER SUPPLY

TB105

4 CHANNEL CAM I/O BOARD

THE CUSTOMER CONNECTS THE ANCILARY EQUIPMENT TO THESE RELAY OUTPUT TERMINALS.

S101 OPTIONS

OPTION SWITCH S101 EXPLANATIONS:

OPTION SW 1 AND 2: THESE ARE USED TO DETERMINE WHERE THE OVERRUN SWITCH IS EVALUATED. SEE MANUAL FOR DETAILS.
OPTIONS SW 3: FUNCTIONALITY CHANGES DEPENDING ON FIRMWARE VERSION. 2 HAND ONLY MODE ENABLES AND DISABLES AUTO CARRY UP ANGLE CHANGES. ONE HAND AND FOOT CONTROL FUNCTIONALITY CHANGES WITH THIS SWITCH. SEE MANUAL FOR DETAILS.
OPTION SW 4: ENABLES ACTS WHEN ON DISABLES WHEN OFF. OPTIONAL FIRMWARE REQUIRED.
OPTION SW 5: PRIOR ACT TIMING FOR AUTO SINGLE STROKE AND CONTINUOUS ON DEMAND. AUTO S.S. ON= 5 MIN. OFF = 30 SECONDS. CONT ON DEMAND ON = 10 MINUTES OFF = 1 MINUTE.
OPTION SW 6: DUAL LIGHT CURTAINS ENABLED. ON = 2 LIGHT CURTAINS CONNECTED. OFF = SINGLE LIGHT CURTAIN OPERATION.
OPTION SW 7: DISABLE CHANGES TO STOP TIME LIMIT AND AUTO CARRY UP. ON = ENABLED. OFF = DISABLED.
OPTION SW 8: SELECT TOP STOP MODE AND AUX OUTPUT 1 RESPONSE TO INT. STROKE. SEE MANUAL FOR DETAILS.

S102 OPTIONS

OPTION SWITCH S102 EXPLANATIONS:

OPTION SW 1: SET CAMS FUNCTION. OFF = ENABLES THE SET CAMS FUNCTION. ON = DISABLES SET CAMS FUNCTION.
OPTIONS SW 2: AUXILIARY E-STOP OUTPUT RELAY MUTING FUNCTION. SHADOW MUTING FIRMWARE REQUIRED. SEE MANUAL FOR DETAILS.

DISPLAY BOARD

TB707

TB706

TB704

TB702

TB701

JP709

TB108 IS LOCATED ON THE END OF THE MAIN PROCESSOR BOARD.

TB108

TB104

TB103

TB102

TB101

BUTT SPLICE

MUTE LAMP 2

USE AUXILIARY OUTPUTS 1 AND 2 FOR NON-SAFETY FUNCTIONS ONLY

AUX 1 OUPUT
AUX 1 OUTPUT IS NORMALLY CLOSED. IT OPENS WHEN THERE IS A FAULT CONDITION. WHEN AN E-STOP STRING OPENS OR A LIGHT CURTAIN IS INTERRUPTED WHILE THE PRESS IS RUNNING. IT MAY TURN OFF WHEN THERE IS AN INTERRUPTED STROKE. OPTION SWITCH #8 CHANGES THE WAY THIS OUTPUT REACTS WHEN THERE IS AN INTERRUPTED STROKE. IF YOU WANT THE AUX 1 OUTPUT TO STAY CLOSED WHILE INCHING THE PRESS DURING AN INTERRUPTED STROKE, SET SWITCH 8 TO CLOSED.

AUX 2 OUTPUT
AUX 2 OUTPUT IS NORMALLY OPEN. IT CLOSES WHENEVER THERE IS AN INTERRUPTED STROKE OR THERE IS A FAULT CONDITION PRESENT. THE OUTPUT IS ALSO CLOSED WHILE INCHING THE PRESS.

OVER-RUN LIMIT SWITCH

E-STOP RELAY OUTPUT BOARD

E-STOP OUTPUTS:
THESE OUTPUTS ARE INTENDED TO INTERFACE WITH ANCILLARY EQUIPMENT SURROUNDING THE PRESS. THESE OUTPUTS ARE NORMALLY CLOSED. THEY OPEN IF THE E-STOP STRING IS INTERRUPTED, THE LIGHT CURTAIN IS INTERRUPTED OR CROSS-CHECKED USER INPUT IS OPEN.

SYSTEM AIR PRESSURE

ENABLE NO TOP STOP IN INCH MODE

MOTOR REVERSE

MOTOR FORWARD

+24V

N/C CONTACTS OF BAR CONTROL

ON/OFF SWITCH CAN BE WIRED TO MOTOR STARTER CIRCUIT SO THAT MAIN MOTOR TURNS OFF WHEN BAR MODE IS SELECTED.

BAR CONTROL BOX

SWAP BLACK AND YELLOW WIRES TO CHANGE ROTATION

RESOLVER

IMPORTANT!
To Minimize noise interference, the resolver case should be grounded.

15 PIN CONNECTOR

JUMPER PLUG IN 12 PIN CONNECTOR

OPERATOR STATION CABLE

AUTOMATIC MODE ACTUATOR

FOOT SWITCH

DA71905	B	43349-02	Wiring Diagram WPC 2000/SH8
ITEM NO.	REV.	DWG. NO.	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES:
.X ± .1 FRACTIONS ± 1/64
.XX ± .01 ANGLES ± 1/2°
.XXX ± .005

GENERAL SURFACE FINISH √RMS MAX

REMOVE ALL BURRS
SHARP EDGES R MAX
INSIDE CORNERS R MAX

MATERIAL: ----------//----------

FINISH: ----------//----------

Wintriss Controls Group

TITLE: Wiring Diagram WPC 2000/SH8

DRAWN		SIZE	DRAWING NUMBER	ISSUE
G. ROMAC	4/21/10	D	43349-02	B
DES ENG. G. ROMAC				
MFG ENG. B. WARREN		SCALE N/A	SHEET 1 OF 1	