HINGE

TO SPRAY-BAR FOAM VALVE- BOX

C9-8PIN

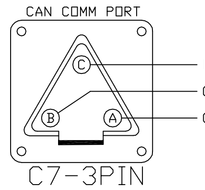
C9-P8 — FOAM PUMP ON/OFF (WHT-BLK-GRN) C31-P46
C9-P7 — FOAM VALVE CMD (WHT-GRY) C41-P41
C9-P6 — FOAM FLOW SNSR (WHT-PUR) C41-P24
C9-P5 — CAN (-) (BLU-WHT) TERM-7
C9-P4 — CAN (+) (BLU-RED) TERM-6
C9-P3 — 24VDC SW. POWER (RED-WHT) C31-P31
C9-P2 — 24VDC VALVE 16AWG (RED-WHT) TERM-3
C9-P1 — GROUND VALVE (BLK) 16AWG TERM-2

TO SPRAY-BAR AIR VALVE-BOX

C8-8PIN

C9-P8 — N/C
C9-P7 — N/C
C9-P6 —
C9-P5 — CAN (-) (BLU-WHT) TERM-7
C9-P4 — CAN (+) (BLU-RED) TERM-6
C9-P3 — 24VDC POWER (RED-WHT) C31-P31
C9-P2 — 24VDC VALVE 16AWG (RED-WHT) TERM-3
C9-P1 — GROUND VALVE (BLK) 16AWG TERM-2

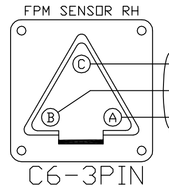
CAN COMM PORT



N/C
CAN (-) (BLU-WHT) TERM-7
CAN (+) (BLU-RED) TERM-6

C7-3PIN

FPM SENSOR RH



SNSR GROUND (BLK) GND-LUG
FPM SIGNAL (WHT-PUR) C31-P19
24VDC (RED-WHT) TERM-3
SHIELD GROUNDED AT BOX ONLY

C6-3PIN

TO CIR EMULSION

C5-8PIN

C5-P8 — SENSOR COMMON (BLU) TERM-5
C5-P7 — PUG EMUL FB (WHT-BLU) C31-P23
C5-P6 — 24VDC (RED-WHT) TERM-3
C5-P5 —
C5-P4 —
C5-P3 —
C5-P2 — SENSOR COMMON (BLU) TERM-5
C5-P1 — PUG EMUL TEMP SENSOR (WHT-GRY) C31-P30

TO CIR ADDITIVE WEIGHSHARK

C4-8PIN

C-P8 — SENSOR GROUND (BLU) TERM-5
C4-P7 — PUG WTR FB 4-20mA LOW SIDE (BRN-BLU)
C4-P6 — 24VDC (RED-WHT) TERM-3
C4-P5 —
C4-P4 — PUG WTR CMD 0-10VDC (RED-BRN) C31-P44
C4-P3 — SENSOR GROUND (BLU) TERM-5
C4-P2 — 24VDC SUPPLY (RED-WHT) TERM-3
C4-P1 — GROUND (BLK) TERM-2

TO SPRAY-BAR AIR VALVE-BOX

C3-8PIN

C3-P8 — WEIGHSHARK COMMON (BLU) TERM-5
C3-P7 — WEIGHSHARK SIGNAL (BRN-YEL) C31-P24
C3-P6 —
C3-P5 —
C3-P4 — WEIGH SHARK POWER 24VDC (RED-WHT) TERM-3
C3-P3 — PPU POWER 24VDC (RED-WHT) TERM-3
C3-P2 — SPEED PPU UNDERSCREEN BELT (WHT-YEL) C31-P32
C3-P1 — GROUND (BLK) GND LUG

TO MILL

C2-8PIN

C2-P24 — ROTO SLURRY ENABLE (WHT-BLK-RED)
C2-P23 — ROTO SLURRY FB HIGH SIDE (WHT-BLK-BLU)
C2-P22 — ROTO SLURRY FB LOW SIDE (WHT-BLK-GRN)
C2-P21 — ROTO SLURRY TEMP 4-20mA (WHT-PUR) C41-P30
C2-P20 — ROTO SLURRY DENSITY 4-20mA (WHT-BLK-YEL)
C2-P19 — ROTO SLURRY DENSITY LOW (WHT-GRY)
C2-P18 — ROTO SLURRY CMD 0-10VDC (GRN-YEL) C41-P42
C2-P17 — SENSOR GROUND (BLU) TERM-5
C2-P16 — 24VDC SUPPLY (RED-WHT) TERM-3
C2-P15 — GROUND (BLK) TERM-2
C2-P14 —
C2-P13 —
C2-P12 —
C2-P11 —
C2-P10 —
C2-P9 —
C2-P8 — SENSOR GROUND (BLU) TERM-5
C2-P7 — ROTO WTR FB 4-20mA LOW SIDE (GRN-BLK)
C2-P6 — 24VDC (RED-WHT) TERM-3
C2-P5 — WARNING LIGHT/HORN (RED-BLU) REL-2 PIN-3
C2-P4 — ROTO WTR CMD 0-10VDC (GRN-RED) C41-P43
C2-P3 — SENSOR GROUND (BLU) TERM-5
C2-P2 — 24VDC SUPPLY (RED-WHT) TERM-3
C2-P1 — GROUND (BLK) TERM-2

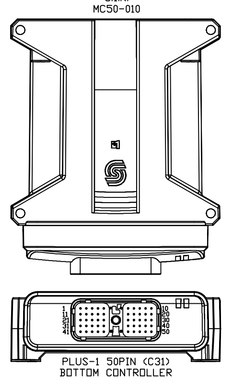
SLURRY CONTROL IS AN OPTION

TO CIR ELC BOX

C1-8PIN

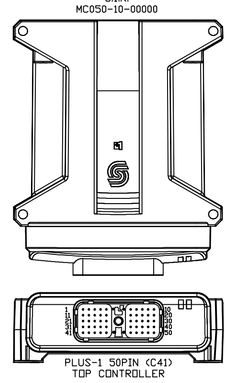
C2-P12 —
C2-P11 —
C2-P10 — EMUL. TANK LEVEL FULL SIG (WHT-BLK-YEL) C31-P17
C2-P9 — EMUL. TANK LEVEL SNSR (WHT-YEL) C31-P28
C2-P8 — 5VDC SENSOR POWER (YEL) TERM-4
C2-P7 — TRANSFER PUMP ENABLE (WHT-ORG) FROM CENTER TERMINAL TRANSFER ENABLE SWITCH
C2-P6 — PUG EMULSION CMD 0-10Vdc (GRN-ORG) C31-P43
C2-P5 — VFD REVERSE (RED-BLU) FROM FWD/REV SW
C2-P4 — VFD FORWARD (RED-YEL) FROM FWD/REV SW
C2-P3 — 24VDC EMULSION PUMP ENABLE PWR SUPPLY (WHT-BLU) TO FWD/REV SW ON FRONT PANEL
C2-P2 — 24VDC (RED) TERM-1
C2-P1 — GROUND (BLK) TERM-2

NODE3
MAIN CNTRL
C.I.R.
MC50-010



PLUS-1 50PIN (C31)
BOTTOM CONTROLLER

NODE4
OUTPUT MOD.
C.I.R.
MC050-10-00000



PLUS-1 50PIN (C41)
TOP CONTROLLER

PUG WTR CMD 0-10VDC (WHT-BRN-RED) C31-P44
0-10VDC (WHT-GRN-YEL) ROTO SLURRY CMD C41-P42
ROTO WTR CMD 0-10VDC (WHT-GRN-RED) C41-P43
0-10VDC (WHT-GRN-ORG) PUG ASPHALT CMD C31-P43

1 2 3 4

4-PIN FEMALE DEUSCH CONNECTOR
4-PIN MALE DEUSCH CONNECTOR

2.8K 2Watt — 10V Zener
2.8K 2Watt — 10V Zener
2.8K 2Watt — 10V Zener
2.8K 2Watt — 10V Zener

4-PIN FEMALE DEUSCH CONNECTOR
4-PIN MALE DEUSCH CONNECTOR

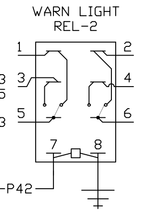
8 7 6 5

TERM-2

24VDC (RED-WHT) C41-P50
24VDC (RED-WHT) C41-P49
24VDC (RED-WHT) C41-P48
24VDC (RED-WHT) C41-P47
24VDC (RED-WHT) C41-P2
24VDC (RED-WHT) C31-P50
24VDC (RED-WHT) C31-P49
24VDC (RED-WHT) C31-P48
24VDC (RED-WHT) C31-P47
24VDC (RED-WHT) C31-P2
— 24VDC (RED-WHT) TERM-3

GROUND (BLK) C41-P1
GROUND (BLK) C31-P1
— GROUND (BLK) TERM-2

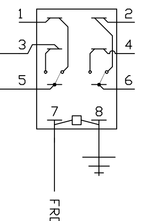
WARN LIGHT
REL-2



WARNING LIGHT/HORN (RED-BLU) C1-P3 & C2-P5
24VDC (RED-WHT) TERM-3
WARNING LIGHT/HORN (WHT-BLU) C31-P42

1	2	3	4	5	6	7	8
24VDC BOX PWR RED 14 GA.	GND BATT BLK 14 GA.	24VDC ACC RD-WT 18 GA.	SNSR 5VDC YL 18 GA.	SNSR GND BU 18 GA.	CAN (+) BU-RD 18 GA. C41-P3 C36-P4	CAN (-) BU-WT 18 GA. C41-P5 C36-P5	
24VDC BOX PWR RED 14 GA. FROM 24VDC 10AMP	GND BATT BLK 14 GA. FROM B. POST #2	24VDC ACC RD-WT 14 GA. FROM RELAY #42	SNSR 5VDC YL 18 GA. FROM NODE3 C31-P8	SNSR GND BU 18 GA. FROM NODE3 C31-P9	CAN (+) BU-RD 18 GA. FROM NODE3 C31-P3	CAN (-) BU-WT 18 GA. FROM NODE3 C31-P4	

BOX POWER
REL-1



CIRCUIT BREAKER 15AMP
24Vdc (RED) TERM-1
FROM POWER SW (RED-WHT) TERM-23
GROUND 12AWG (BLK)
TO GROUND LUG (-12V)

THESE RESISTORS ARE USED TO CHANGE THE 4to20ma / 1 to 5Vdc

20 21 22 23 24 25 26 27 28 29

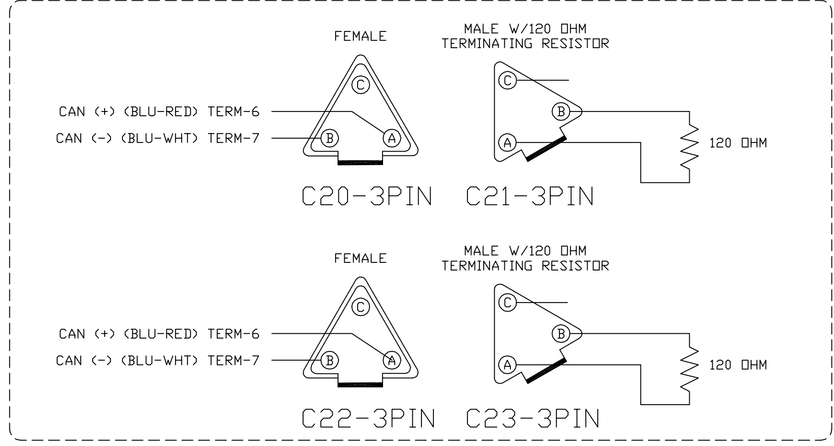
270ohm — ROTO WTR FB (GRN-BLU) C41-P26
270ohm — ROTO SLURRY FB HIGH SIDE (WHT-BLK-BLU) C41-P23
270ohm — ROTO SLURRY TEMP 4-20mA (WHT-PUR) C41-P30
270ohm — ROTO SLURRY DENSITY HIGH SIDE (WHT-BLK-YEL) C41-P17
270ohm — PUG WTR FB (BRN-BLU) C31-P26

GND (BLK) TERM-2

PUG WATER IS AN OPTION

GROUND 8AWG (BLK) 12' LEAD OUTSIDE OF BOX TO BE GROUNDED IN MAIN ELC BOX

CAN NETWORK NEEDS 60-OHMS ACROSS IT, BOTH 120-OHMS ARE IN THIS BOX, THERE ARE NO OTHER BOXES ON THIS NETWORK



206030
VALVE BOX RT500W
COMPONENTS MOUNTED IN BOX
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