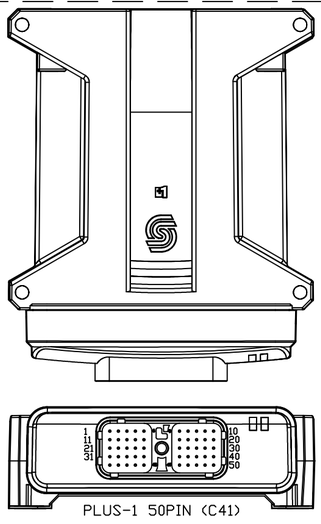

NODE4
SLAVE BOX
MC50-010

PIN KEY NC-41
1-GRND (BLK)
2-RED/WHT (TERM 3)
3-BLU/RED (CAN+ TERM 6)
4-BLU/WHT (CAN- TERM 7)
5-N/C
6-N/C
7-RED/WHT (TERM 3) BELT ULTRASOUND
8-YEL (TERM 4)
9-BLU (TERM 5)
10-WHT/ORG (C15-P2) LH BX EXT SW
11-WHT/BLK (C15-P3) LH BX RETR SW
12-WHT/SIL (C15-P4) RH BX EXT SW
13-WHT/RED (C15-P5) RH BX RETR SW
14-WHT/BRN (C15-P6) BOTH BX EXT SW
15-WHT/GRN (C15-P7) BOTH BX RETR SW
16-WHT/GRN (C23-P4) HYD OIL LOW SW
17-N/C
18-N/C
19-N/C
20-N/C
21-N/C
22-N/C
23-BLK/RED (C21-PB) LH BX POS
24-WHT/BRN (C22-PB) RH BX POS
25-WHT (C18-PB) LH BELT SW

PIN KEY NC-41
26-WHT (C19-PB) RH BELT SW
27-N/C
28-N/C
29-N/C
30-N\C
31-WHT-RED-BLK (C13-P9) REC HOP OPN
32-WHT-RED-YEL (C13-P11) REC HOP CLS
33-WHT/RED/BLU (C14-P1 HITCH UP
34-WHT/RED/BRN (C14-P3) HITCH DWN
35-WHT/RED/GRN (C14-P7) HITCH CLOSE
36-WHT/RED/ORG (C14-P7) HITCH OPEN
37-RED (C16-P1) LH BX EXTD
38-BRN (C16-P3) LH BX RETR
39-BLK/RED (C16-P5) RH BX EXTD
40-WHT/RED (C16-P7) RH BX RETR
41-WHT/PUR (C23-P1) DUMP VLV
42-WHT/RED/BLU TERM 51/61 VIBRATORS
43-WHT (C16-P9) LH BELT VLV
44-BLK/WHT (C16-P11) RH BELT VLV
45-YEL-RED (C16-P13) LH AUGER VLV
46-RED/GRN (C16-P15) RH AUGER VLV
47-RED-WHT (TERM 3)
48-RED/WHT (TERM 3)
49-RED-WHT (TERM 3)
50-RED-WHT (TERM 3)

CONNECTORS OUT THE SIDE OF THE BOX

C20-3PIN
- C20-PC — CAN (-) (BLU/WHT) (TERM-7)
- C20-PB — CAN (+) (BLU/RED) (TERM-6)
- C20-PA — 12VDC IGN ACC TO RELAY (RED-WHT) TERM 31 & 41

TO JCT BOX C5

RH BOX STRING POT

C22-3PIN
- C22-PC — GROUND (BLU) (TERM-5)
- C22-PB — RH BOX STRING POT (WHT-BRN) (C41-P24)
- C22-PA — SNSR 5VDC (YLW) (TERM-4)

LH BOX STRING POT

C21-3PIN
- C21-PC — GROUND (BLU) (TERM-5)
- C21-PB — LH BOX STRING POT (BLK-RED) C41-23
- C21-PA — SNSR 5VDC (YLW) (TERM-4)

TO RH VLV BOX

C17-12 PIN SOCKET
- C17-P12 — N/C
- C17-P11 — N/C
- C17-P10 — N/C
- C17-P9 — N/C
- C17-P8 — RH CAM CLOSE OUTPUT (WHT-BRN) (C16-P23)
- C17-P7 — RH CAM OPEN OUTPUT (WHT-GRN) (C16-P21)
- C17-P6 — CAN - (BLU-WHT) (TERM 7)
- C17-P5 — CAN + (BLU-RED) (TERM 6)
- C17-P4 — VLV BOX PWR 12VDC (RED-YEL) (TERM 1)
- C17-P3 — VLV BOX PWR 12VDC (RED-YEL) (TERM 1)
- C17-P2 — GROUND (BLK) (TERM 2)
- C17-P1 — GROUND (BLK) (TERM-2)

CAMS

C16-24PIN SOCKET KEYED A
- C16-P24 — RH CAM VLV CLOSE GRND
- C16-P23 — RH CAM VLV CLOSE (WHT-BRN) (C17-P9)
- C16-P22 — RH CAM VLV OPEN GRND
- C16-P21 — RH CAM VLV OPEN (WHT-GRN) (C17-P8)
- C16-P20 — LH CAM VLV CLOSE GRND
- C16-P19 — LH CAM VLV CLOSE (WHT-ORG) (C13-P9)
- C16-P18 — LH CAM VLV OPEN GRND
- C16-P17 — LH CAM VLV OPEN (WHT-BLU) (C13-P8)
- C16-P16 — RH AUGER VLV GND (BLK) (TERM-2)
- C16-P15 — RH AUGER VLV (RED-GRN) (C41-P46)
- C16-P14 — LH AUGER VLV GND (BLK) (TERM-2)
- C16-P13 — LH AUGER VLV (YEL-RED) (C41-P45)
- C16-P12 — RH BELT VLV GND (BLK) (TERM-2)
- C16-P11 — RH BELT VLV (BLK/WHT) (C41-P44)
- C16-P10 — LH BELT VLV GND (BLK) (TERM-2)
- C16-P9 — LH BELT VLV (WHT) (C41-P43)
- C16-P8 — RH BOX RET VLV GND (BLK) (TERM-2)
- C16-P7 — RH BOX RET VLV (WHT/RED) (C41-P40)
- C16-P6 — RH BOX EXT VLV GND (BLK) (TERM-2)
- C16-P5 — RH BOX EXT VLV (BLK/RED) (C41-P39)
- C16-P4 — LH BOX RET VLV GND (BLK) (TERM-2)
- C16-P3 — LH BOX RET VLV (BRN) (C41-P38)
- C16-P2 — LH BOX EXT VLV GND (BLK) (TERM-2)
- C16-P1 — LH BOX EXT VLV (RED) (C41-P37)

VALVE OUTPUTS

C16-24PIN (6 … 24 / 1 … 19)

AUGERS & BELTS

BOX MOVE

REMOTE SW BOX

205738 SOCKET KEYED "A" GRAY

C15-8PIN SOCKET
- C15-P8 —
- C15-P7 — BOTH BOX RET SW (WHT-GRN) (C41-P15)
- C15-P6 — BOTH BOX EXT SW (WHT-BRN) (C41-P14)
- C15-P5 — RH BOX RET SW (WHT-RED) (C41-P13)
- C15-P4 — RH BOX EXT SW (WHT-SIL) (C41-P12)
- C15-P3 — LH BOX RET SW (WHT-BLK) (C41-P11)
- C15-P2 — LH BOX EXT SW (WHT-ORG) (C41-P10)
- C15-P1 — SNSR 5VDC (YEL) (TERM-4)

STANDARD REMOTE BOX: PART# 200975

TO HITCH VALVE MANIFOLD

C14-12 PIN SOCKET
- C13-P12 — REC HOPPER CLOSE GND (BLK) (TERM-2)
- C13-P11 — REC HOPPER CLOSE (WHT-RED-YEL) (C41-P32)
- C13-P10 — REC HOPPER OPEN GND (BLK) (TERM-2)
- C13-P9 — REC HOPPER OPEN (WHT-RED-BLK) (C41-P31)
- C13-P8 — HITCH OPEN GND (BLK) (TERM-2)
- C13-P7 — HITCH OPEN (WHT-RED-ORG) (C41-P36)
- C13-P6 — HITCH CLOSE GND (BLK) (TERM-2)
- C13-P5 — HITCH CLOSE (WHT-RED-GRN) (C41-P35)
- C13-P4 — HITCH DN GND (BLK) (TERM-2)
- C13-P3 — HITCH DN (WHT-RED-BRN) (C41-P34)
- C13-P2 — HITCH UP GND (BLK) (TERM-2)
- C13-P1 — HITCH UP (WHT-RED-BLU) (C41-P33)

TO LH VLV BOX

C13-12 PIN SOCKET
- C13-P12 - N/C
- C13-P11 - N/C
- C13-P10 - N/C
- C13-P9 - N/C
- C13-P8 - LH CAM CLOSE OUTPUT (WHT-ORG) (C16-P19)
- C13-P7 - LH CAM OPEN OUTPUT (WHT-BLU) (C16-P17)
- C13-P6 - CAN - (BLU-WHT) (TERM 7)
- C13-P5 - CAN + (BLU-RED) (TERM 6)
- C13-P4 - VLV BOX PWR 12VDC (RED-YEL) (TERM 1)
- C13-P3 - VLV BOX PWR 12VDC (RED-YEL) (TERM 1)
- C13-P2 - GROUND (BLK) (TERM 2)
- C13-P1 - GROUND (BLK) (TERM 2)

OPTIONAL SENSORS LOGIC COMMAND FOR CONTROLLER

AUGER ULTRASONIC (RED-WHT TERM-3) TO C41-P6

24VDC SNSR PWR (RED-ORG) (T91)
GROUND (BLK) (SNSR GND)

24Vdc POWER SUPPLY FOR ULTRASONIC SENSORS

12VDC ACC (RED-WHT) (TERM-3)
GROUND (BLK) (TERM-2)

BELT ULTRASONIC (RED-WHT TERM-3) TO C41-P7
12VDC ACC (RED-WHT) C41-P50
12VDC ACC (RED-WHT) C41-P49
12VDC ACC (RED-WHT) C41-P48
12VDC ACC (RED-WHT) C41-P47
12VDC ACC (RED-WHT) C41-P2

GROUND (BLK) BINDING POST (2)

GROUND (BLK) (14AWG)

12VDC BOX PWR (RED-YEL) C13-P5
12VDC BOX PWR (RED-YEL) C13-P10
12VDC BOX PWR (RED-YEL) C17-P5
12VDC BOX PWR (RED-YEL) C17-P10

	1	2	3	4	5	6	7	8
	12VDC BOX PWR RED 16 GA.	GND BATT BLK 16 GA. C41-P1	12VDC ACC RD-WT 18 GA.	SNSR 5VDC YL 18 GA. FROM NODE4 C41-P8	SNSR GND BU 18 GA. FROM NODE4 C41-P9	CAN (+) BU-RD 18 GA. NODE4 C41-P3	CAN (-) BU-WT 18 GA. NODE4 C41-P4	
	12VDC BOX PWR RED 14 GA. FROM TERM #32	GND BATT BLK 14 GA. FROM B. POST #2	12VDC ACC RD-WT 14 GA. FROM RELAY #42	SNSR 5VDC YL 18 GA. TO C15-P1	SNSR GND BU 18 GA. TO	CAN (+) BU-RD C13-P5 C14-P7 C16-P7	CAN (-) BU-WT C13-P6 C14-P8 C16-P8	

(41) 12VDC ACC (RED-WHT) (C20-PA) — 8 AWG FROM FUSE BLOCK — (14 AWG) — (40) — 12VDC ACC POWER (14 AWG)(RED-WHT) (TERM-3) — (42)

(51) VIBRATORS (WHT-RED-BLU) C41-P42 — (50) — LH VIBRATOR PWR 8 AWG — (52)

(31) 12VDC ACC (RED-WHT) (C20-PA) — 8 AWG FROM FUSE BLOCK — (14 AWG) — (30) — FRT & REAR BOX PWR (14 AWG) (RED) (TERM 1) — (32)

(61) — (60) — RH VIBRATOR PWR 8 AWG — (62)

VIBRATOR OPTION

207181 DECAL

12VDC (RED) 8AWG LEFT BOX(VIB OPT)	12VDC (RED) 8AWG RIGHT BOX(VIB OPT)	SPARE

40	40	SPARE
15	20	SPARE

30	40	
12VDC LEFT RIGHT VLV BOX POWER	12VDC ACC POWER	SPARE

8 GA. RED — 6 GA. RED FROM JUCTION BOX — (20) — BINDING POST 12VDC+

16 GA. BLK (C16-P2)
16 GA. BLK (C13-P2)
14 GA. BLK (TERM 2)
6 GA. BLK FROM JUCTION BOX — (21) — BINDING POST GROUND
12VDC (BLK) 8 GA LEFT BOX
12VDC (BLK) 8 GA RIGHT BOX

REMOTE BOX OPTION 205741 MULTI FUNCTION WITH GATE SWITCHES

205739 SOCKET KEYED "B" BLACK

C15-8PIN SOCKET
- C15-P8 — N/C
- C15-P7 — N/C
- C15-P6 — N/C
- C15-P5 — N/C
- C15-P4 — CAN (-) (BLU-WHT) (TERM-7)
- C15-P3 — CAN (+) (BLU-RED) (TERM-6)
- C15-P2 — 12VDC ACC (RED-WHT) (TERM-3)
- C15-P1 — GROUND (BLK) (BINDING POST-21)

REMOTE BOX OPTION 205742 MULTI FUNCTION WITHOUT GATE SWITCHES

205739 SOCKET KEYED "B" BLACK

C15-8PIN SOCKET
- C15-P8 — N/C
- C15-P7 — N/C
- C15-P6 — N/C
- C15-P5 — N/C
- C15-P4 — CAN (-) (BLU-WHT) (TERM-7)
- C15-P3 — CAN (+) (BLU-RED) (TERM-6)
- C15-P2 — 12VDC ACC (RED-WHT) (TERM-3)
- C15-P1 — GROUND (BLK) (BINDING POST-21)

CONNECTORS OUT THE BOTTOM OF THE BOX

C18-3PIN (LH BELT SW)
- C18-PC — GROUND (BLK) TERM-2
- C18-PB — LH BELT SW (WHT) (C41-P25)
- C18-PA — 24VDC POWER (RED-ORG) (T91)

C19-3PIN (RH BELT SW)
- C19-PC — GROUND (BLK) TERM-2
- C19-PB — RH BELT SW (WHT) (C41-P26)
- C19-PA — 24VDC POWER (RED-ORG) (T91)

C23-8PIN SOCKET (DMP VLV HYD OIL SW)
- C23-P8 - N/C
- C23-P7 - N/C
- C23-P6 - N/C
- C23-P5 - N/C
- C23-P4 - HYD OIL SW (WHT-GRN) (C41-P16)
- C23-P3 - SNSR 5VDC HYD LOW SW(YEL)(TERM-4)
- C23-P2 - DUMP VLV GRND (BLK) (TERM 2A)
- C23-P1 - DUMP VLV (WHT-PUR) (C41-P41)

REV:
1-10-2012 UPDATED FOR NORGREN AIR VLVS
ADDED (2) 12 PIN RECP & WIRING CHANGE
ADDED (1) 8-PIN RECP BOTTOM FOR DMP VLV & HYD SNSR
ADDED (2) 70 AMP RELAYS FOR VIBRATOR OPTION
RTC-RMH

QTY	NEXT ASS'Y	MADE BY BEARCAT
		APPROVED
		MATERIAL SEE PRINTED B.O.M.
	FINAL ASS'Y	
		FINISH

STANDARD TOLERANCE	.X ±.03	.XX ±.015	.XXX ±.005	.XXXX ±.0005	ANG. ±1.0°	X/X ± 1/32

3650 SABIN BROWN RD.
WICKENBURG, AZ 85390
(928)684-7851
BEARCAT MFG.

TITLE: SCHE ELC WIRE PLUS1 TDM SLAVE BX 2013
PART NO. 208752
AUTHOR RH | DATE 7-10-12
SCALE NONE | SHEET OF