

R. C. Tronics, Incorporated

Specializing In Electronic Controls

AUGUST 23, 2022

2573 East Kercher Road

Goshen, Indiana 46528

<https://www.rctronics.com>

Phone: 1-574-642-3857

Fax: 1-574-642-3858

Toll Free: 1-866-457-7790

RCT-01760-O TRANSIT BUS BOOKLET

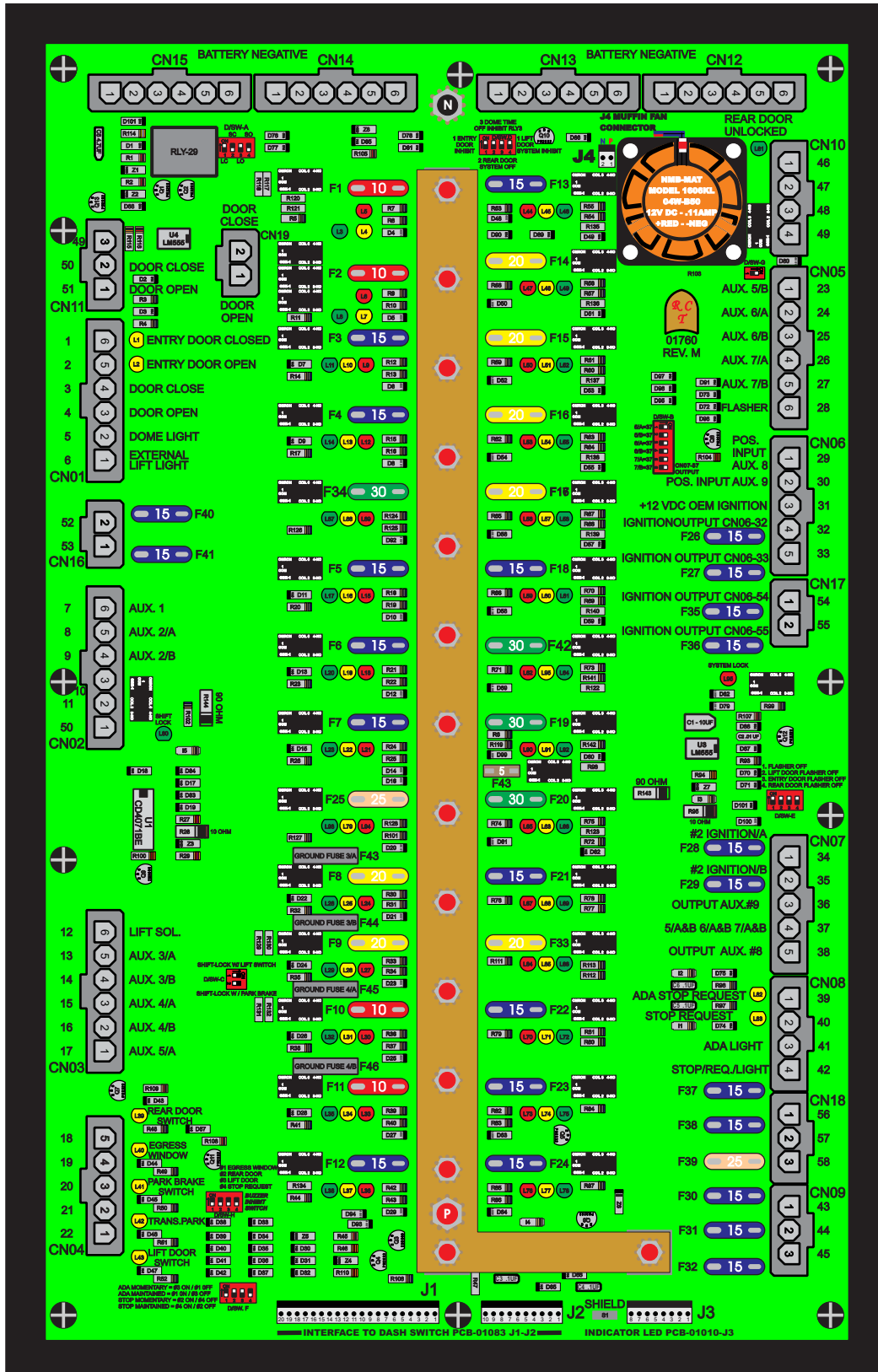


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Goshen, Indiana 46526
<https://www.rcetronics.com>

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RCT-01760-O PLUG-IN-PLAY BUS POWER CENTER EXPANDED FEATURE MICRO-RELAY SYSTEM



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Power Center RCT-01760-O Molex Connectors

CN01

- 1 Door Closed Limit Input **NEG (sink)**
- 2 Door Open Limit Input **NEG (sink)**
- 3 Door Close Motor Output **NEG (sink)**
- 4 Door Open Motor Output **NEG (sink)**
- 5 Dome Light **12 VDC (+)**
- 6 External Lift Light **12 VDC (+)**

CN02

- 7 Aux. 1 Out **12 VDC (+)**
- 8 Aux. 2/A Out **12 VDC (+)**
- 9 Aux. 2/B Out **12VDC (+)**
- 10 Shift Lock NC (ISOLATED CONTACT)
- 11 Shift Lock NO (ISOLATED CONTACT)
- 50 Shift Lock COM (ISOLATED CONTACT)

CN03

- 12 Lift Solenoid Output **12 VDC (+)**
- 13 Aux. 3/A Out **12 VDC (+)**
- 14 Aux. 3/B Out **12 VDC (+)**
- 15 Aux. 4/A Out **12 VDC (+)**
- 16 Aux. 4/B Out **12 VDC (+)**
- 17 Aux. 5/A Out **12VDC (+)**

CN04

- 18 Rear Door Switch Input **NEGATIVE (sink)**
- 19 Egress Window Input **NEGATIVE (sink)**
- 20 Park Brake Switch Input **NEGATIVE (sink)**
- 21 Transmission in "Park" Input **NEGATIVE (sink)**
- 22 Lift Door Switch Input **NEGATIVE (sink)**

CN05

- 23 Aux. 5/B Out **12 VDC (+)**
- 24 Aux. 6/A Out **12 VDC (+)**
- 25 Aux. 6/B Out **12 VDC (+)**
- 26 Aux. 7/A Out **12 VDC (+)**
- 27 Aux. 7/B Out **12 VDC (+)**
- 28 "Flasher" Output **12 VDC (+)**

CN06

29 Input Aux. 8 12 VDC (+)
30 Input Aux. 9 12 VDC (+)
31 Input Ignition 12 VDC (+)
32 Ignition Output 12 VDC (+)
33 Ignition Output 12 VDC (+)

CN07

34 Ignition Output 12 VDC (+)
35 Ignition Output 12 VDC (+)
36 Aux. 9 Output 12 VDC (+)
37 DSW-B Output 12 VDC (+)
38 Aux. 8 Output 12 VDC (+)

CN08

39 ADA Stop Input **NEGATIVE (sink)**
40 Stop/Req Input **NEGATIVE (sink)**
41 ADA Light Output 12 VDC (+)
42 Stop/Req Light Output 12v (+)

CN09

43 Battery Output 12 VDC (+)
44 Battery Output 12 VDC (+)
45 Battery Output 12 VDC (+)

CN10

46 Rear Door input **NEGATIVE (sink)**
47 Lock Relay Common (ISOLATED CONTACT)
48 Lock Relay N.O. (ISOLATED CONTACT)
49 Lock Relay N.C. (ISOLATED CONTACT)

CN11

49 **NEG (-)**
50 Entry Door Close Motor Output 12 VDC (+)
51 Entry Door Open Motor Output 12 VDC (+)

CN12, CN13, CN14, CN15

(6) **NEGATIVE** Each
Total of 24 Connections

CN17

54 Ignition Output 12 VDC (+)
55 Ignition Output 12 VDC (+)

CN18

56 Battery Output 12 VDC (+)

57 Battery Output 12 VDC (+)

58 Battery Output 12 VDC (+)

CN19

Entry Door Close Motor Output 12 VDC (+)

Entry Door Open Motor Output 12 VDC (+)

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RCT-01760-O – DATA CONNECTORS - J1-J2-J3

POWER CENTER RCT-01760-O / J1-J2 TO DASH SWITCH PCB-01083 / J1-J2

- J1-01* -- Ignition (+12 VDC) (To J3-8 and J3-7) (*J2-1* Aux. 5/B Switch) (sink) (To J4-5)
 - J1-02* -- Buzzer Output (sink) (*J2-2* Aux. 6/A Switch) (sink) (To J4-4)
 - J1-03* -- Entry Door Light (sink) (To J3-6) (*J2-3* Aux 6/B Switch) (sink) (To J4-3)
 - J1-04* -- Stop Request (sink) (To J3-5) (*J2-4* Aux 7/A Switch) (sink) (To J4-2)
 - J1-05* -- Rear Door Light (sink) (To J3-4) (*J2-5* Aux. 7/B Switch) (sink) (To J4-1)
 - J1-06* -- Egress Windows (sink) (To J3-3) (*J2-6* Master Switch) (sink)
 - J1-07* -- ADA Stop Request (sink) (To J3-2) (*J2-7* Flasher Switch) (sink)
 - J1-08* -- Lift Door Light (sink) (To J3-1) (*J2-8* Battery Negative (-))
 - J1-09* -- Aux. 5/A Switch (sink) (To J4-6) (*J2-9* Clearance Light Power) (+12 VDC)
 - J1-10* -- Aux 4/B Switch (sink) (To J4-7) (*J2-10* OPEN)
 - J1-11* -- Aux. 4/A Switch (sink) (To J4-8)
 - J1-12* -- Aux 3/B Switch (sink) (To J4-9)
 - J1-13* -- Aux. 3/A Switch (sink)
 - J1-14* -- Aux. 2/A Switch (sink)
 - J1-15* -- Aux. 2/B Switch (sink)
 - J1-16* -- Aux. 1 Switch (sink)
 - J1-17* -- Lift Solenoid Switch (sink)
 - J1-18* -- Dome Light Switch (sink)
 - J1-19* -- Entry Door Close Switch (sink)
 - J1-20* -- Entry Door Open Switch (sink)
-
- J2-01* -- Aux. 5/B Switch (sink)(J4-5)
 - J2-02* -- Aux. 6/A Switch (sink) (To J4-4)
 - J2-03* -- Aux 6/B Switch (sink) (To J4-3)
 - J2-04* -- Aux 7/A Switch (sink) (To J4-2)
 - J2-05* -- Aux. 7/B Switch (sink) (To J4-1)
 - J2-06* -- Master Switch (sink)
 - J2-07* -- Flasher Switch (sink)
 - J2-08* -- Battery Negative (-)
 - J2-09* -- Clearance Light Power (+12 VDC)
 - J2-10* -- +12 VDC (not fused - 0-ohm resistor R47 on RCT-01760-M)

J3 Connector, Indicating Lights

- J3-1*** - Shift Lock (**sink**) @ 1 ampere maximum)
- J3-2*** - Transmission Park (**sink**) @ 1 ampere maximum)
- J3-3*** - Lift Enable (**sink**) @ 1 ampere maximum)
- J3-4*** - Park Break Set (**sink**) @ 1 ampere maximum)
- J3-5*** - Lift Door Open (**sink**) @ 1 ampere maximum)
- J3-6*** - Lift Switch On (**sink**) @ 1 ampere maximum)
- J3-7*** - Ignition (+12 VDC), switched)
- J3-8*** - Ignition (+12 VDC), switched)

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DASH SWITCH PCB-01083

DASH SWITCH PCB-01083/J1-J2 TO POWER CENTER RCT-01760-O/J1-J2

- J1-01** -- Ignition (+12 VDC) (To J3-8 and J3-7) (**J2-1** Aux. 5/B Switch) (**sink**) (To J4-5)
 - J1-02** -- Buzzer Output (**sink**) (**J2-2** Aux. 6/A Switch) (**sink**) (To J4-4)
 - J1-03** -- Entry Door Light (**sink**) (To J3-6) (**J2-3** Aux 6/B Switch) (**sink**) (To J4-3)
 - J1-04** -- Stop Request (**sink**) (To J3-5) (**J2-4** Aux 7/A Switch) (**sink**) (To J4-2)
 - J1-05** -- Rear Door Light (**sink**) (To J3-4) (**J2-5** Aux. 7/B Switch) (**sink**) (To J4-1)
 - J1-06** -- Egress Windows (**sink**) (To J3-3) (**J2-6** Master Switch) (**sink**)
 - J1-07** -- ADA Stop Request (**sink**) (To J3-2) (**J2-7** Flasher Switch) (**sink**)
 - J1-08** -- Lift Door Light (**sink**) (To J3-1) (**J2-8** Battery Negative (-))
 - J1-09** -- Aux. 5/A Switch (**sink**) (To J4-6) (**J2-9** Clearance Light Power) (+12 VDC)
 - J1-10** -- Aux 4/B Switch (**sink**) (To J4-7) (**J2-10** OPEN)
 - J1-11** -- Aux. 4/A Switch (**sink**) (To J4-8)
 - J1-12** -- Aux 3/B Switch (**sink**) (To J4-9)
 - J1-13** -- Aux. 3/A Switch (**sink**)
 - J1-14** -- Aux. 2/A Switch (**sink**)
 - J1-15** -- Aux. 2/B Switch (**sink**)
 - J1-16** -- Aux. 1 Switch (**sink**)
 - J1-17** -- Lift Solenoid Switch (**sink**)
 - J1-18** -- Dome Light Switch (**sink**)
 - J1-19** -- Entry Door Close Switch (**sink**)
 - J1-20** -- Entry Door Open Switch (**sink**)
-
- J2-01** -- Aux. 5/B Switch (**sink**) (To J4-5)
 - J2-02** -- Aux. 6/A Switch (**sink**) (To J4-4)
 - J2-03** -- Aux. 6/B Switch (**sink**) (To J4-3)
 - J2-04** -- Aux. 7/A Switch (**sink**) (To J4-2)
 - J2-05** -- Aux. 7/B Switch (**sink**) (To J4-1)
 - J2-06** -- Master Switch (**sink**)
 - J2-07** -- Flasher Switch (**sink**)
 - J2-08** -- Battery Negative (-)
 - J2-09** -- Clearance Light Power (+12 VDC)
 - J2-10** -- +12 VDC (not fused - 0-ohm resistor R47 on RCT-01760-M)

J3 Connector, Indicating Lights

- J3-1*** Lift Door Light, **(sink)** @ 1 ampere maxim) (From J1-8)
- J3-2*** ADA Stop Request, **(sink)** @ 1 ampere maxim) (From J1-7)
- J3-3*** Egress Windows, **(sink)** @ 1 ampere) (From J1-6)
- J3-4*** Rear Door Light, **(sink)** @ 1 ampere) (From J1-5)
- J3-5*** Stop Request, **(sink)** @ 1 ampere) (From J1-4)
- J3-6*** Entry Door Light, **(sink)** @ 1 ampere) (From J1-3)
- J3-7*** Ignition (+12 VDC), switched) (From J1-1)
- J3-8*** Ignition (+12 VDC), switched) (From J1-1)

J4 Connector, Spare Relays on Power Center PCB.

- J4-1*** Aux 7/B Switch **(sink)** (From J2-5)
- J4-2*** Aux 7/A Switch **(sink)** (From J2-4)
- J4-3*** Aux 6/B Switch **(sink)** (From J2-3)
- J4-4*** Aux 6/A Switch **(sink)** (From J2-2)
- J4-5*** Aux 5/B Switch **(sink)** (From J2-1)
- J4-6*** Aux 5/A Switch **(sink)** (From J1-9)
- J4-7*** Aux 4/B Switch **(sink)** (From J1-10)
- J4-8*** Aux 4/A Switch **(sink)** (From J1-11)
- J4-9*** Aux 3/B Switch **(sink)** (From J1-12)
- J4-10*** Battery Negative (-)

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INDICATOR LIGHTS PCB-01010-J3 TO POWER CENTER RCT-01760-O / J3

1. Shift Lock. **(sink)** @ 1 ampere maximum
2. Transmission Park. **(sink)** @ 1 ampere maximum
3. Lift Enable. **(sink)** @ 1 ampere maximum
4. Park Brake Set. **(sink)** @ 1 ampere maximum
5. Lift Door Open. **(sink)** @ 1 ampere maximum
6. Lift Switch On. **(sink)** @ 1 ampere maximum
7. Ignition (**+12 VDC**, switched)
8. Ignition (**+12 VDC**, switched)

FACEPLATE NOMENCLATURE LEFT TO RIGHT ON PCB-01010

1. LIFT SWITCH
2. PARK BRAKE
3. IN PARK
4. SHIFT LOCK
5. LIFT DOOR
6. LIFT ENABLED

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SWITCH CENTER RCT-01083 / J3 CONNECTION TO PCB-01010

1. Lift Door Light, **(sink)** @ 1 ampere maximum
2. ADA Stop Request, **(sink)** @ 1 ampere maximum
3. Egress Windows, **(sink)** @ 1 ampere maximum
4. Rear Door Light, **(sink)** @ 1 ampere maximum
5. Stop Request, **(sink)** @ 1 ampere maximum
6. Entry Door Light, **(sink)** @ 1 ampere maximum
7. Ignition (**+12 VDC**, switched)
8. Ignition (**+12 VDC**, switched)

PCB-01010 RENAMED

1. Shift Lock to; "ADA STOP"
2. In Park to; "LIFT DOOR"
3. Lift Enabled to; "ENTRY DOOR"
4. Park Brake to; "STOP REQUEST"
5. Lift Door to; "REAR DOOR"
6. Lift Switch to; "EGRESS WINDOW"

PCB-01083 FACEPLATE RENAME LEFT TO RIGHT

1. EGRESS WINDOW
2. STOP REQUEST
3. LIFT DOOR
4. ADA STOP
5. REAR DOOR
6. ENTRY DOOR

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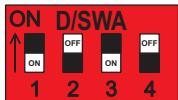
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RCT-01760-O DIP SWITCH A, ELECTRIC DOOR OPEN AND CLOSE SETTING.

Friday, May 03, 2024

D/SWA-1 (ON): Travel Limit, Internal Ground Input @ CN01-1, "Entry Door is Closed". **- NO CONNECTION.**
D/SWA-2 (OFF): Removes the ability to Limit Travel @ CN01-1, "Entry Door is Closed". **- NO CONNECTION.**
D/SWA-3 (ON): Travel Limit, Internal Ground Input @ CN01-2 "Entry Door is Open". **- NO CONNECTION.**
D/SWA-4 (OFF): Removes the ability to Limit Travel @ CN01-2, "Entry Door is Open". **- NO CONNECTION.**



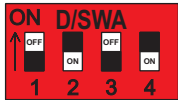
D/SWA-1 LC (INTERNAL LIMIT, "DOOR CLOSED")
D/SWA-2 SC (SELF LIMITING, "DOOR CLOSE") (USED WITH CURRENT LIMITING MOTOR CONTROL)
D/SWA-3 LO (INTERNAL LIMIT, "DOOR OPEN")
D/SWA-4 SO (SELF LIMITING, "DOOR OPEN") (USED WITH CURRENT LIMITING MOTOR CONTROL)

NOTE:

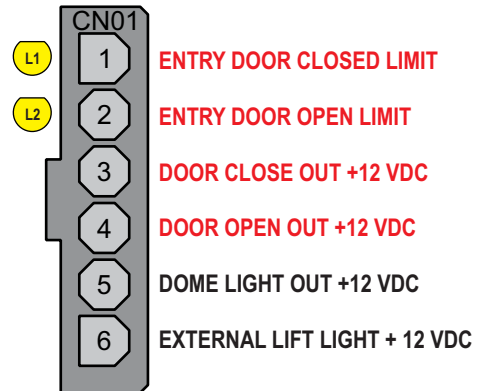
**PROTRUDING DIP-SWITCH TABS ARE ADJUSTMENT TABS SHOWN IN BLACK.
"ON & OFF" IS DEFINED IN BLACK ON WHITE BACKGROUND.**

NOTE:

DOME LIGHT OPERATES WITH D/SWD-3, "ON"



D/SWA-1 LC (EXTERNAL LIMIT, "DOOR CLOSED")
D/SWA-2 SC (SELF LIMITING, "DOOR CLOSE") (USED WITH CURRENT LIMITING MOTOR CONTROL)
D/SWA-3 LO (EXTERNAL LIMIT, "DOOR OPEN")
D/SWA-4 SO (SELF LIMITING, "DOOR OPEN") (USED WITH CURRENT LIMITING MOTOR CONTROL)



D/SWA-1 (OFF): Travel Limit, External Ground Input, @ CN01-1, "Entry Door is Closed". **SINK TO LIMIT.**
D/SWA-2 (ON): Provides the ability to Limit Travel @ CN01-1, "Entry Door is Closed". **SINK TO LIMIT.**
D/SWA-3 (OFF): Travel Limit, External Ground Input, @ CN01-2 "Entry Door is Open". **SINK TO LIMIT.**
D/SWA-4 (ON): Provides the ability to Limit Travel @ CN01-2, "Entry Door is Open". **SINK TO LIMIT.**

LOCATION: CN11 & CN01, TOP LEFT OF RCT-01760-O

1. NOTE: D/SW-A; Switches 2 & 4 "ON" and Switches 1 & 3 "OFF" to operate doors with **external limit switches connected to CN01-1 "Limit Door Close" and CN01-2 "Limit Door Open"**.
2. NOTE: D/SW-A; Switches 1 & 3 "ON" and Switches 2 & 4 "OFF", to operate doors with **internal limit switches connected to CN01-1 "Limit Door Close" and CN01-2 "Limit Door Open"**.
3. **Motor Outputs, CN01-3 "Door Close" and CN01-4 "Door Open", rated 12 vdc – 30 amperes.**

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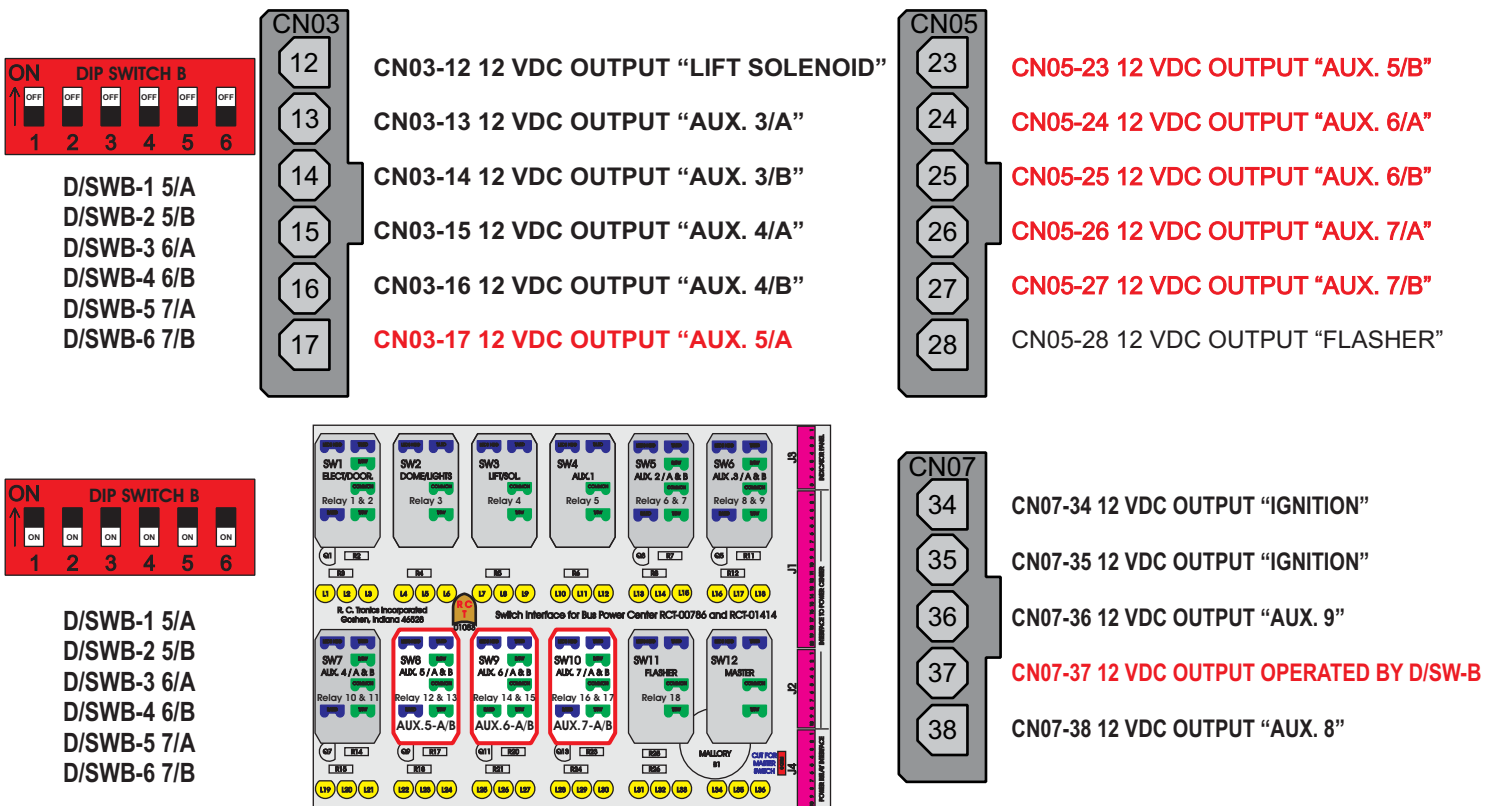
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RCT-01760-O DIP-M SWITCH B, AUX 5-6-7 A & B ADD CN07-37 SETTING.

Tuesday, May 7, 2024

D/SWB-1 (OFF): CN03-17 12 VDC Output "Aux. 5/A / **no output at** / CN07 -37 +12 VDC DISABLED
D/SWB-2 (OFF): CN05-23 12 VDC Output "Aux. 5/B / **no output at** / CN07-37 +12 VDC DISABLED
D/SWB-3 (OFF): CN05-24 12 VDC Output "Aux. 6/A / **no output at** / CN07 -37 +12 VDC DISABLED
D/SWB-4 (OFF): CN05-25 12 VDC Output "Aux. 6/B / **no output at** / CN07 -37 +12 VDC DISABLED
D/SWB-5 (OFF): CN05-26 12 VDC Output "Aux. 7/A / **no output at** / CN07 -37 +12 VDC DISABLED
D/SWB-6 (OFF): CN05-27 12 VDC Output "Aux. 7/B / **no output at** / CN07 -37 +12 VDC DISABLED



D/SWB-1 (ON): CN03-17 12 VDC Output "Aux. 5/A / **output at** / CN07 -37 +12 VDC ENABLED
D/SWB-2 (ON): CN05-23 12 VDC Output "Aux. 5/B / **output at** / CN07 -37 +12 VDC ENABLED
D/SWB-3 (ON): CN05-24 12 VDC Output "Aux. 6/A / **output at** / CN07 -37 +12 VDC ENABLED
D/SWB-4 (ON): CN05-25 12 VDC Output "Aux. 6/B / **output at** / CN07 -37 +12 VDC ENABLED
D/SWB-5 (ON): CN05-26 12 VDC Output "Aux. 7/A / **output at** / CN07 -37 +12 VDC ENABLED
D/SWB-6 (ON): CN05-27 12 VDC Output "Aux. 7/B / **output at** / CN07 -37 +12 VDC ENABLED

LOCATED: 1/3 DOWN RIGHT SIDE OF RCT-01760-O

- NOTE: This circuit was designed to accommodate up to three heating zones and output 12 volt output to a pump, (CN07-37) so as to provide heating, front, center and rear of the vehicle seating sections. In addition utilizing balance of dash mounted switches in event of single or double zoned heating arrangements.

NOTE:

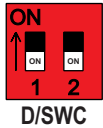
**PROTRUDING DIP-SWITCH TABS ARE ADJUSTMENT TABS SHOWN IN BLACK.
"ON & OFF" IS DEFINED IN BLACK ON WHITE BACKGROUND.**

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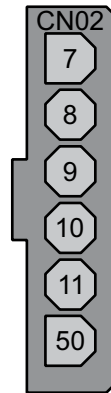
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RCT-01760-O DIP SWITCH C, “SHIFT-LOCK” with, “LIFT SWITCH” or “PARK-BRAKE SWITCH”. Friday, May 3, 2024



D/SWC-1 SHIFT-LOCK W / LIFT SWITCH
D/SWC-2 SHIFT-LOCK W / PARK BRAKE



CN02-7 12 VDC OUTPUT “AUX. 1”

CN02-8 12 VDC OUTPUT “AUX. 2/A”

CN02-9 12 VDC OUTPUT “AUX. 2/B”

CN02-10 NORMALLY CLOSED CONTACT “SHIFT LOCK”

CN02-11 NORMALLY OPEN CONTACT “SHIFT LOCK”

CN02-50 COMMON “SHIFT LOCK”

1. NOTE: Circuit designed to lock vehicle, “Shift Lock” so that transmission cannot be removed from, “Park”.
- 2 D/SW-1, “Lift Switch” is set “ON” and/or D/SW-2, “Park Brake” is set “ON”.
- 3 Isolated contacts, CN02-50 (common), CN02-11 (normally open) and CN02-10 (normally closed) reverse contact state in reference to common.
- 2 Wiring to be accomplished by technician an by vehicle manufacture specifications

DIP SWITCH C LOCATED: 2/3 DOWN LEFT SIDE OF RCT-01760-O

NOTE:

**PROTRUDING DIP-SWITCH TABS ARE ADJUSTMENT TABS SHOWN IN BLACK.
“ON & OFF” IS DEFINED IN BLACK ON WHITE BACKGROUND.**

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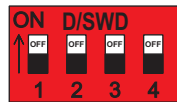
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RCT-01760-O DIP SWITCH D, ENTRY DOOR-REAR DOOR-DOME LIGHT-LIFT DOOR SETTING.

Friday, May 5, 2024

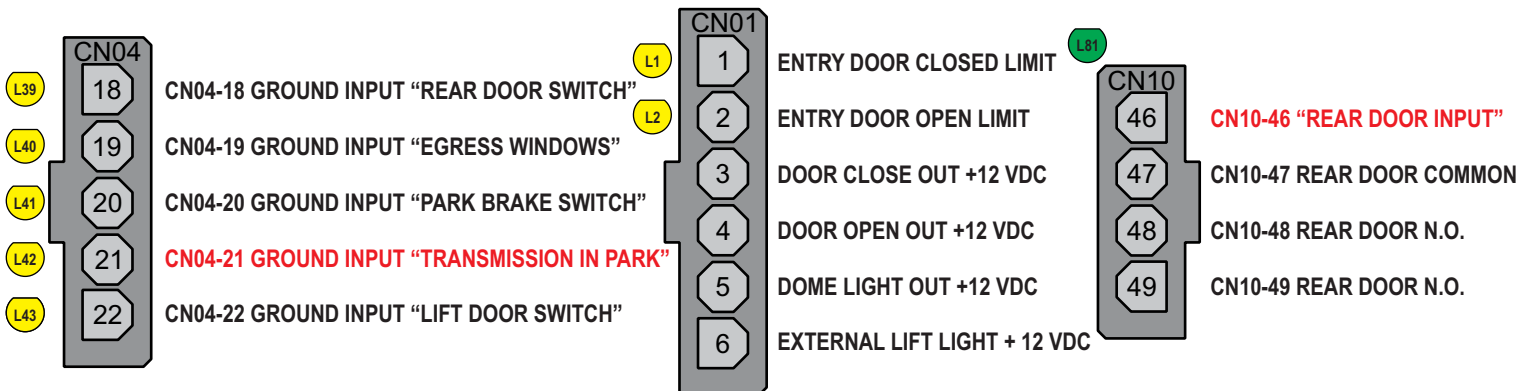
- D/SWD-1 (ON): Inhibits operation of “Entry Door” open without “Transmission in Park”, CN04-21, Led “ON’.
D/SWD-1 (OFF): “Entry Door” operates without “Transmission in Park”, CN04-21, Led “OFF’.
D/SWD-2 (ON): “Rear Door” open @ CNO4-18, will lock Ignition System “ON”, with Red Led with Buzzer.
D/SWD-2 (OFF): “Rear Door” open, @ CN04-18 will not lock Ignition System, “ON”.
D/SWD-3 (ON): Inhibits operation of interior, “Dome Lights”, with operation of, “Entry Door”.
D/SWD-3 (OFF): Enables operation of interior, “Dome Lights”, with operation of, “Entry Door”.
D/SWD-4 (ON): “Lift Door” open @ CN04-22, will lock Ignition System “ON”, with Red Led with Buzzer.
D/SWD-4 (OFF): Lift Door” open, @ CN04-22 will not lock Ignition System “ON”.



D/SWD-1 ENTRY DOOR INHIBIT
D/SWD-2 REAR DOOR SYSTEM OFF
D/SWD-3 DOME TIME OFF INHIBIT RLY3
D/SWD-4 LIFT DOOR SYSTEM INHIBIT

NOTE:

PROTRUDING DIP-SWITCH TABS ARE ADJUSTMENT TABS SHOWN IN BLACK.
“ON & OFF” IS DEFINED IN BLACK ON WHITE BACKGROUND.



LOCATION: TOP LEFT CENTER OF RCT-01760-O

- NOTE: “System Lock” will not permit, shut a system shut down, either by removing “Master Switch” or “Ignition”. “Rear Door” and/or “Lift Door” must be checked and secured.
- NOTE: “Entry Door” with “Entry Door Inhibit”, D/SW-1 (ON) a sink input is at, “Transmission in Park”, CN04-21, Led “ON’ . This ensures that the vehicle cannot move during passenger loading.

R.C. TRONICS, INCORPORATED

2573 EAST KERCHER ROAD
GOSHEN, INDIANA 46526
<https://www.rctronics.com>

PHONE: 1-574-642-3857
FAX: 1-574-642-3858
TOLL FREE: 1-866-457-7790

RCT-01760-M DIP SWITCH E, LIFT DOOR-ENTRY DOOR-REAR DOOR ON OFF SETTING.

Saturday, April 1, 2023

D/SWE-1 (ON): “Flasher Switch ON”, constant output at CN05-28.

D/SWE-1 (OFF): “Flasher Switch ON”, alternating output at CN05-28.

D/SWE-2 (ON): “Flasher Switch OFF”, input CN04-22 “Lift Door Switch”, alternating output at CN05-28.

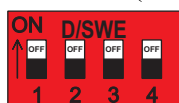
D/SWE-2 (OFF): “Flasher Switch OFF”, input CN04-22 “Lift Door Switch”, inhibits output at CN05-28.

D/SWE-3 (ON): “Flasher Switch OFF”, with CN11-04 “Entry Door Open”, alternating output at CN05-28.

D/SWE-3 (OFF): “Flasher Switch OFF” with CN11-04 “Entry Door Open”, inhibits output at CN05-28.

D/SWE-4 (ON): “Flasher Switch OFF” input CN04-18 “Rear Door Switch”, alternating output at CN05-28.

D/SWE-4 (OFF): “Flasher Switch OFF” input CN04-18 “Rear Door Switch”, inhibits output at CN05-28.



D/SWE-1 FLASHER OFF
D/SWE-2 LIFT DOOR FLASHER OFF
D/SWE-3 ENTRY DOOR FLASHER OFF
D/SWE-4 REAR DOOR FLASHER OFF



CN05-23 12 VDC OUTPUT “AUX. 5/B”

CN05-24 12 VDC OUTPUT “AUX. 6/A”

CN05-25 12 VDC OUTPUT “AUX. 6/B”

CN05-26 12 VDC OUTPUT “AUX. 7/A”

CN05-27 12 VDC OUTPUT “AUX. 7/B”

CN05-28 12 VDC OUTPUT “FLASHER”

LOCATION: RIGHT SIDE CENTER OF RCT-01760-M

1. NOTE: D/SWE-1 (OFF) provides constant output at CN05-28, with D/SWE-2 (ON) “Lift Door Switch”, D/SWE-3 (ON) “Entry Door Switch”, and/or D/SWE-4 (ON) “Rear Door Switch”.
2. NOTE: With D/SWITCH E 1 thru 4 “OFF”, output CN05-28 may be used as a normal output.

NOTE:

**PROTRUDING DIP-SWITCH TABS ARE ADJUSTMENT TABS SHOWN IN BLACK.
“ON & OFF” IS DEFINED IN BLACK ON WHITE BACKGROUND.**

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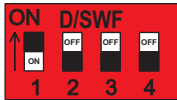
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RCT-01760-O DIP SWITCH F “ADA” AND STOP REQUEST MAINTAINED OR MOMENTARY. Saturday, May 4, 2024

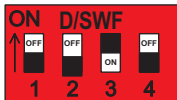
ADA, “STOP REQUEST”, D/SWF SETTINGS

D/SW-F Switch 1 “ON” & Switch 3 “OFF” momentary input @ CN07-39, alternating buzzer – continuous.



D/SWF-1 “ADA STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-39 “ALTERNATING BUZZER CONTINUOUS”, *cancels with lift door opening @ CN04-22.*
D/SWF-2 “STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-40, “MAINTAINED BUZZER” WITH INPUT ONLY”, *cancels with input removal @ CN08-40.*
D/SWF-3 “ADA STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-39, “ALTERNATING BUZZER” WITH INPUT ONLY”, *cancels with input removal @ CN08-39.*
D/SWF-4 “STOP REQUEST”, with “MOMENTARY INPUT @ CN08-40”, MAINTAIN BUZZER CONTINUOUS”, *cancels with passenger door opening.*

D/SW-F Switch 1 “OFF” & Switch 3 “ON” momentary input @ CN07-39, alternating buzzer with input only.

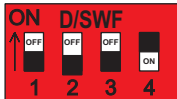


D/SWF-1 “ADA STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-39 “ALTERNATING BUZZER CONTINUOUS”, *cancels with lift door opening @ CN04-22.*
D/SWF-2 “STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-40, “MAINTAINED BUZZER” WITH INPUT ONLY”, *cancels with input removal @ CN08-40.*
D/SWF-3 “ADA STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-39, “ALTERNATING BUZZER” WITH INPUT ONLY”, *cancels with input removal @ CN08-39.*
D/SWF-4 “STOP REQUEST”, with “MOMENTARY INPUT @ CN08-40”, MAINTAIN BUZZER CONTINUOUS”, *cancels with passenger door opening.*

D/SW-F Switch 1 & 3 “OFF”, “NO AUDIBLE ALARM” for “ADA STOP REQUEST”.

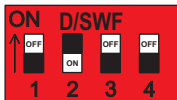
PASSANGER, “STOP REQUEST”, D/SWF SETTINGS

D/SW-F Switch 2 “OFF” & Switch 4 “ON”, momentary input @ CN07-40, continuous buzzer – continuous



D/SWF-1 “ADA STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-39 “ALTERNATING BUZZER CONTINUOUS”, *cancels with lift door opening @ CN04-22.*
D/SWF-2 “STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-40, “MAINTAINED BUZZER” WITH INPUT ONLY”, *cancels with input removal @ CN08-40.*
D/SWF-3 “ADA STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-39, “ALTERNATING BUZZER” WITH INPUT ONLY”, *cancels with input removal @ CN08-39.*
D/SWF-4 “STOP REQUEST”, with “MOMENTARY INPUT @ CN08-40”, MAINTAIN BUZZER CONTINUOUS”, *cancels with passenger door opening.*

D/SW-F Switch 2 “ON” & Switch 4 “OFF”, momentary input @ CN07-39, continuous buzzer with input only.

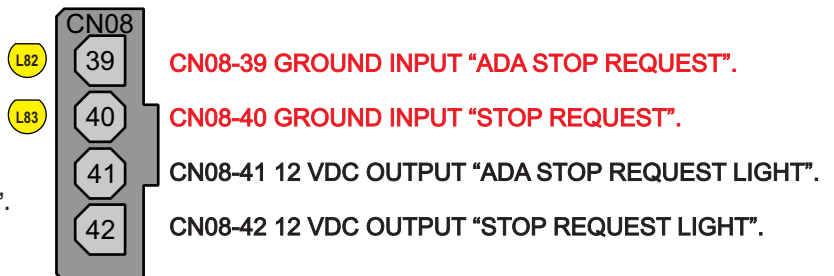
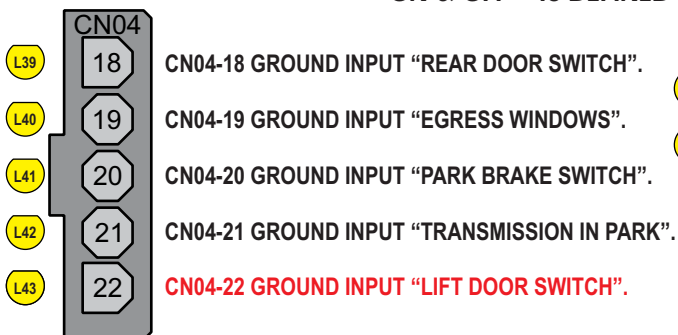


D/SWF-1 “ADA STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-39 “ALTERNATING BUZZER CONTINUOUS”, *cancels with lift door opening @ CN04-22.*
D/SWF-2 “STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-40, “MAINTAINED BUZZER” WITH INPUT ONLY”, *cancels with input removal @ CN08-40.*
D/SWF-3 “ADA STOP REQUEST”, with “MOMENTARY INPUT” @ CN08-39, “ALTERNATING BUZZER” WITH INPUT ONLY”, *cancels with input removal @ CN08-39.*
D/SWF-4 “STOP REQUEST”, with “MOMENTARY INPUT @ CN08-40”, MAINTAIN BUZZER CONTINUOUS”, *cancels with passenger door opening.*

D/SW-F Switch 2 & 4 “OFF”, “NO AUDIBLE ALARM” for “STOP REQUEST”.

NOTE:

**PROTRUDING DIP-SWITCH TABS ARE ADJUSTMENT TABS SHOWN IN BLACK.
“ON & OFF” IS DEFINED IN BLACK ON WHITE BACKGROUND.**



LOCATION: BOTTOM LEFT SIDE OF RCT-01760-O

1. NOTE: “ADA STOP REQUEST”, at input CN08-39, latches audible buzzer, cancels only with input at “LIFT DOOR SWITCH”, CN04-22.
2. NOTE: “PASSENGER STOP REQUEST”, at input CN08-40, latches audible buzzer, cancels only with operation of dash mounted, “Door Open and Close Switch”.

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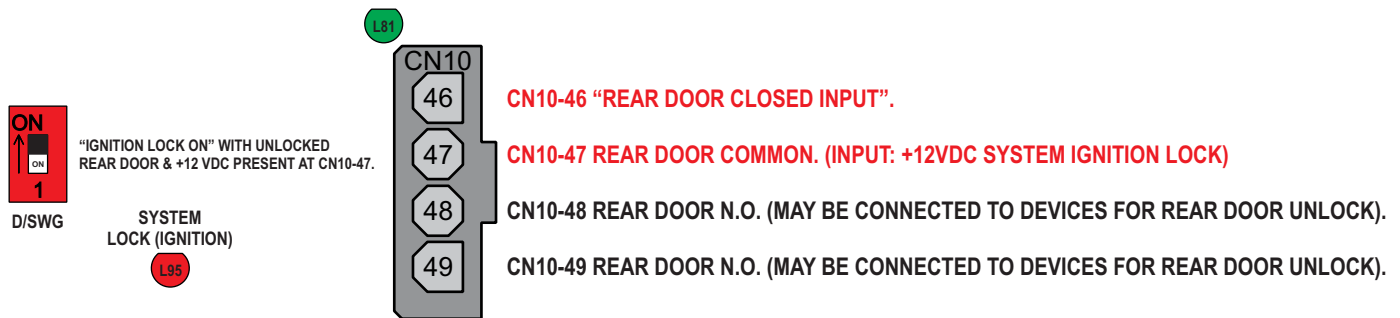
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GOSHEN, INDIANA 46526
<https://www.rctronics.com>

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FAX: 1-574-642-3858
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RCT-01760-O DIP SWITCH G IGNITION LOCK WITH UNLOCKED, REAR DOOR.

Monday, May 6, 2024

D/SW-G: Switch 1 "ON", "LOCKS IGNITION ON" and "SYSTEM LOCK, RED LED L95" when 12vdc is present at CN10-47, "REAR DOOR UNLOCKED".



LOCATION: RIGHT TOP SIDE OF RCT-01760-M

1. NOTE: Green Led L81 "ON" indicates, "REAR DOOR CLOSED".

NOTE:

**PROTRUDING DIP-SWITCH TABS ARE ADJUSTMENT TABS SHOWN IN BLACK.
"ON & OFF" IS DEFINED IN BLACK ON WHITE BACKGROUND.**

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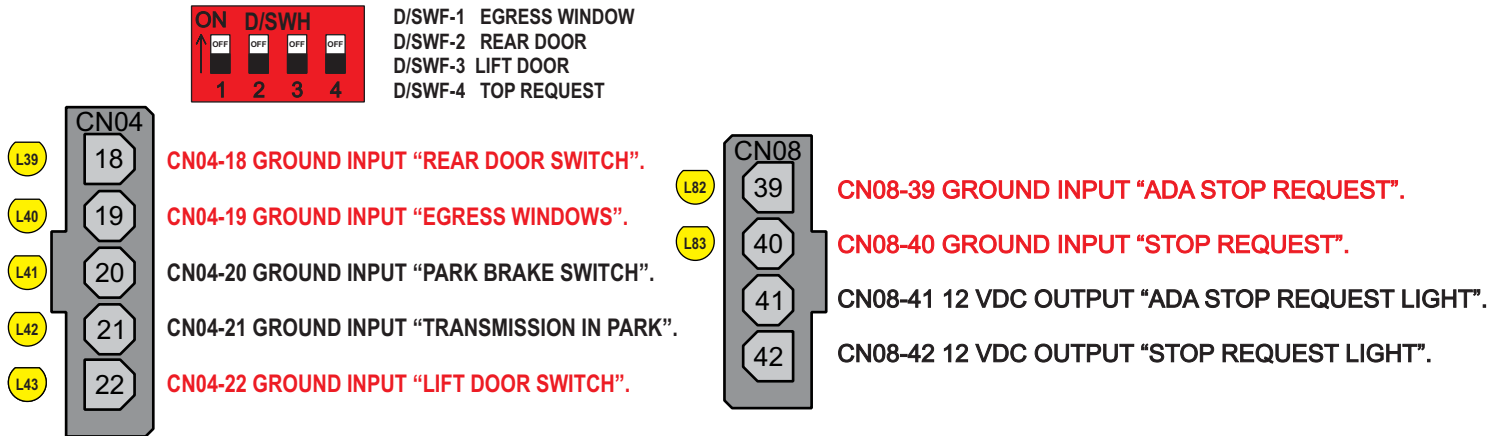
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RCT-01760-O Dip Switch H Buzzer with Egress Window, Rear Door, Lift Door, Stop Request. Sunday, May 5, 2024

EGRESS WINDOW, REAR DOOR, LIFT DOOR, ADA STOP REQUEST SETTINGS

- D/SW-H Switch 1 (OFF) “Egress Window”, no monitoring with audible alarm at CN04-19.
- D/SW-H Switch 1 (ON) “Egress Window”, monitoring with audible alarm at CN-04-19.
- D/SW-H Switch 2 (OFF) “Rear Door”, no monitoring with audible alarm at CN04-18.
- D/SW-H Switch 2 (ON) “Rear Door”, monitoring with audible alarm at CN04-18.
- D/SW-H Switch 3 (OFF) “Lift Door”, no monitoring with audible alarm at CN04-22.
- D/SW-H Switch 3 (ON) “Lift Door”, monitoring with audible alarm at CN04-22.
- D/SW-H Switch 4 (OFF), “ADA & Stop Request”, inhibits audible alarm at CN08-39 and CN08-40.
- D/SW-H Switch 4 (ON), “ADA & Stop Request”, enables audible alarm at CN08-39 or CN08-40.



LOCATION: BOTTOM LEFT SIDE OF RCT-01760-O

1. NOTE: Switch 4 “OFF”, inhibits audible alarms from “ADA CN08-39” and “Stop Request CN08-40”.
2. NOTE: Switch 4 “ON” enables audible alarms from “ADA CN08-39” or “Stop Request CN08-40”.

NOTE:
PROTRUDING DIP-SWITCH TABS ARE ADJUSTMENT TABS SHOWN IN BLACK.
“ON & OFF” IS DEFINED IN BLACK ON WHITE BACKGROUND.

R.C. TRONICS, INCORPORATED

WWW.RCTRONICS.COM

2573 EAST KERCHER ROAD
PHONE: 1-574-642-3857
TOLL FREE: 1-866-457-7790

GOSHEN, INDIANA 46526
FAX: 1-574-642-3858
dchiddister@rcronics.com

POWER CENTER RCT-01760 DATA CABLE

J1 and J2, Cable Interface between Power Center PCB and Dash Switch PCB

J1-01 -- Ignition (+12 VDC) ---(To J3-8 and J3-7)
J1-02 -- Buzzer Output (NEGATIVE) (sink)
J1-03 -- Entry Door Light (NEGATIVE) (sink) ---(To J3-6)
J1-04 -- Stop Request (NEGATIVE) (sink) ---(To J3-5)
J1-05 -- Rear Door Light (NEGATIVE) (sink) ---(To J3-4)
J1-06 -- Egress Windows (NEGATIVE) (sink) ---(To J3-3)
J1-07 -- ADA Stop Request (NEGATIVE) (sink)--- (To J3-2)
J1-08 -- Lift Door Light (NEGATIVE) (sink) ---(To J3-1)
J1-09 -- Aux. 5/A Switch (NEGATIVE) (sink) ---(To J4-6)
J1-10 -- Aux 4/B Switch (NEGATIVE) (sink) (---To J4-7)
J1-11 -- Aux. 4/A Switch (NEGATIVE) (sink) ---(To J4-8)
J1-12 -- Aux 3/B Switch (NEGATIVE) (sink) (---To J4-9)
J1-13 -- Aux. 3/A Switch (NEGATIVE) (sink)
J1-14 -- Aux. 2/A Switch (NEGATIVE) (sink)
J1-15 -- Aux. 2/B Switch (NEGATIVE) (sink)
J1-16 -- Aux. 1 Switch (NEGATIVE) (sink)
J1-17 -- Lift Solenoid Switch (NEGATIVE) (sink)
J1-18 -- Dome Light Switch (NEGATIVE) (sink)
J1-19 -- Entry Door Close Switch (NEGATIVE) (sink)
J1-20 -- Entry Door Open Switch (NEGATIVE) (sink)

J2-01 -- Aux. 5/B Switch (NEGATIVE) (sink) ---(To J4-5)
J2-02 -- Aux. 6/A Switch (NEGATIVE) (sink) ---(To J4-4)
J2-03 -- Aux 6/B Switch (NEGATIVE) (sink) ---(To J4-3)
J2-04 -- Aux 7/A Switch (NEGATIVE) (sink) ---(To J4-2)
J2-05 -- Aux. 7/B Switch (NEGATIVE) (sink) ---(-o J4-1)
J2-06 -- Master Switch (NEGATIVE) (sink)
J2-07 -- Flasher Switch (NEGATIVE) (sink)
J2-08 -- Battery Negative (-)
J2-09 -- Clearance Light Power (+12 VDC)
J2-10 -- OPEN

J3 Connector, Indicating Lights

J3-1 Shift Lock (NEGATIVE) (sink) @ 1 ampere
J3-2 Transmission Park (NEGATIVE) (sink) @ 1 ampere
J3-3 Lift Enabled (NEGATIVE) (sink) @ 1 ampere
J3-4 Park Brake (NEGATIVE) (sink) @ 1 ampere

J3-5 Lift Door Open (**NEGATIVE**) (**sink**) @ 1 ampere

J3-6 Lift Switch On (**NEGATIVE**) (**sink**) @ 1 ampere

J3-7 Ignition (**+12 VDC**), switched)

J3-8 Ignition (**+12 VDC**), switched)

R. C. Tronics Incorporated

2573 East Kercher Road
Goshen, Indiana 46528
Toll Free 1-866-457-7790

DAT-01348-XXXXX
08 Conductor Data Cable

Phone 1-574-642-3857
Fax 1-574-642-3858
<http://www.rctronics.com>

Viewed with Tyco Connector Plug-In Face Down.



Carol C-2465, 22 AWG, Stranded 7/30/8, unshielded eight conductor cable.
Cut each jacket end 4 inches long, remove jacket on each end. Add heatshrink with DAT part number.

Requires two (2) Tyco/Amp. 643814-8 connector & Tyco/Amp. 643075-8 end cap.
Place connector into insertion equipment, start with #8 and complete with #1

CHECK CABLE WITH CABLE CHECKER

#1 BLACK, #2 RED, #3 GREEN, #4 BROWN,

#5 BLUE, #6, ORANGE, #7 YELLOW, #8 WHITE

D
A
T

1st three Letters = Data Cable

0
0
0
0
0

2nd five numbers = Print Number

0
0

3rd two numbers = Configuration

0
0

4th two numbers = Length In Feet

0

5th last digit = Length In Inches

R. C. Tronics Incorporated

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Toll Free 1-866-457-7790

DAT-01349-06XXX
10 Conductor Data Cable

Phone 1-574-642-3857
Fax 1-574-642-3858
<http://www.rctronics.com>

Viewed with Tyco Connector Plug-In Face Down.



DAT-01349-06006 (6 Inch)

Carol C-9540, 24 AWG, Stranded 7/32/10,

Foil 24 AWG Gnd shielded ten conductor cable.

Cut each jacket end 4 inches long, remove jacket on each end.

Add heatshrink with DAT part number.

Requires one (1) Tyco/Amp. 1-643814-0 connector & Tyco/Amp. 1-643075-0 end cap.

Place connector into insertion equipment, start with #10 and complete with #1

#1 GREY, #2 VIOLET, #3 BLACK, #4 RED, #5 GREEN

#6 BROWN, #7 BLUE, #8 ORANGE, #9 YELLOW, #10 WHITE

D
A
T

1st three Letters = Data Cable

0
0
0
0
0

2nd five numbers = Print Number

0
0

3rd two numbers = Configuration

0
0

4th two numbers = Length In Feet

0

5th last digit = Length In Inches

R. C. Tronics, Incorporated

2573 East Kercher Road
Goshen, Indiana 46528
Toll Free: 1-886-457-7790

Phone: 1-574-642-3857
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RCT-01760-O: Trouble Shooting **“LIFT ENABLING SYSTEM”**

1. Positive +12 vdc input at, “IGNITION”, CN06-31
2. Negative signal at, “PARK BRAKE SWITCH”, CN04-20, (Amber Led, on).
3. Negative signal at, “TRANSMISSION PARK”, CN04-21, (Amber Led, on).
4. Negative signal at, “LIFT DOOR SWITCH”, CN04-22, (Amber Led, on).
5. Place, “LIFT SWITCH”, “ON”, located on dash switch assembly, J1-17 sink.
6. Positive output to, “LIFT SOLENOID”, CN03-12
7. Open fuse L194 Red Led L2, should be “OFF”.
8. Relay energized F25, Amber Led L79, should be “ON”.
9. Relay output to, “LIFT SOLENOID”, CN03-12, L93 Green Led should be “ON”.

NOTE: All four inputs must be present, 1 through 5 in which to produce an output at “LIFT SOLENOID”, CN03-12. Monitoring Led’s show status of fuse, relay coil and relay output.

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Goshen, Indiana 46528
Toll Free: 1-886-457-7790

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RCT-01760-H, ADA LIFT SYSTEM, TROUBLE-SHOOTING.

Monday, November 20, 2023

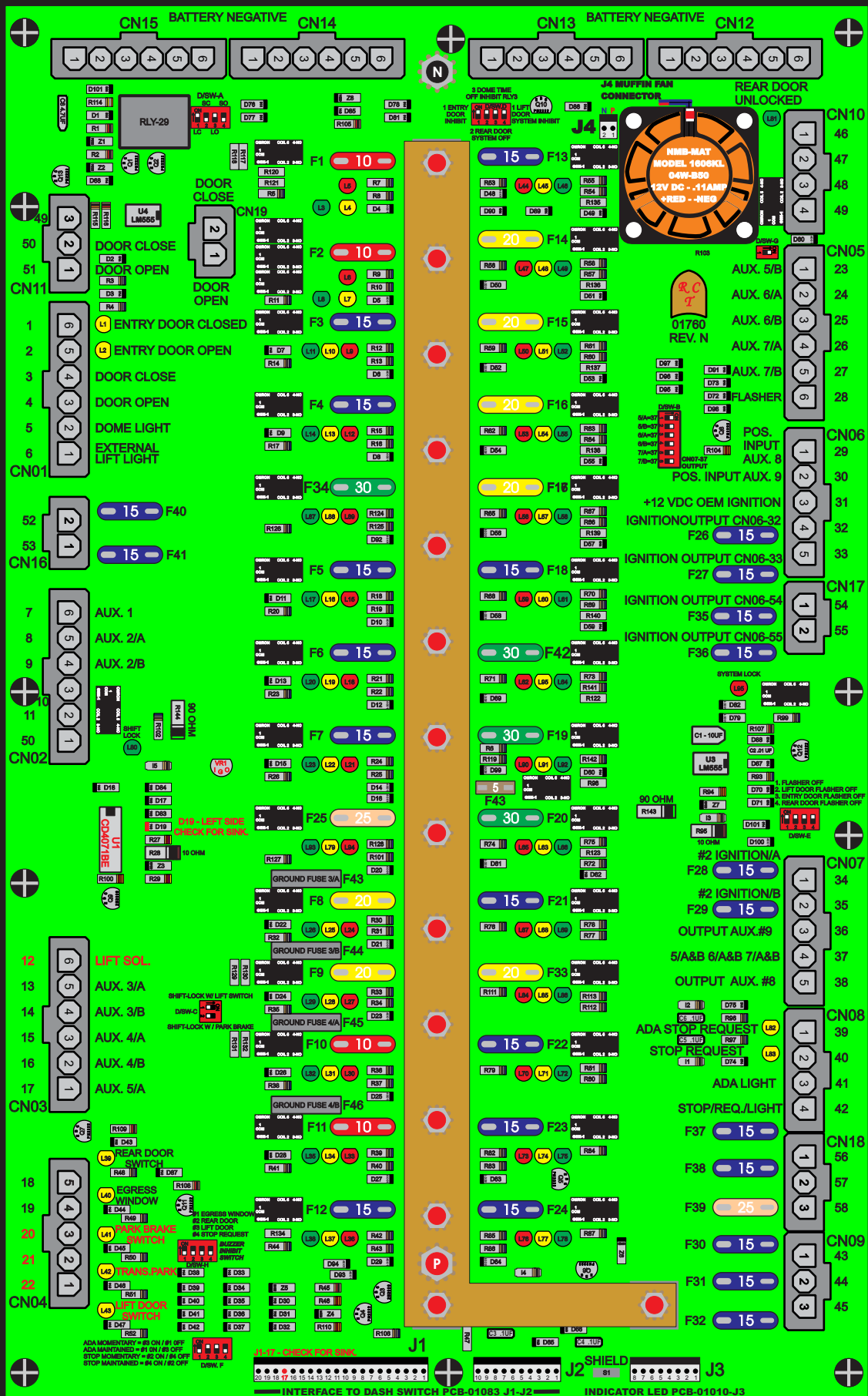
1. CN04-20, ENSURE AMBER INDICATOR ILLUMINATED (L41), **“PARK BRAKE SWITCH”**.
2. CN04-21, ENSURE AMBER INDICATOR ILLUMINATED (L42), **“TRANSMISSION PARK”**.
3. CN04-22, ENSURE AMBER INDICATOR ILLUMINATED (L43), **“LIFT DOOR OPEN”**.
4. OPERATE, **“LIFT SWITCH, “ON”**. (INPUT, J1-17 & D19, LEFT SIDE).
- 5. NOTE: GREEN LED (L93) & AMBER LED (L79) INDICATORS ILLUMINATED.**

NOTE 1: With all five led illuminated the control will present +12 vdc at, CN03-12, **“LIFT SOLENOID OUTPUT”**, (GREEN LED, (L93).

NOTE 2: **“LIFT DOOR SWITCH”**, circuit path is from switch, dash PCB to, J1-17 and then to D19, left side. This is a sink, (ground or vdc common). Check to verify if step number 5 is not present.

NOTE 3: With the above steps complete, inputs verified, one of two conditions exist.

- Power Supply is Defective, (VR1)
- Integrated Circuit is Defective, (U1).



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RCT-01760-O TRANSIT BUS BOOKLET



Custom Design of Electronic Controls

Printed Circuit Board Layout

Complete Manufacturing Facility

RCT Can Solve Your Electrical /Electronic Control Requirements