

R. C. Tronics, Incorporated 1

Specializing In Electronic Controls

*2573 East Kercher Road
Goshen, Indiana 46526
Toll Free 1-866-457-7790*

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

BOOKLET

Speciality Vehicle

Power Center RCT-1233



R. C. Tronics, Incorporated

Specializing In Electronic Controls

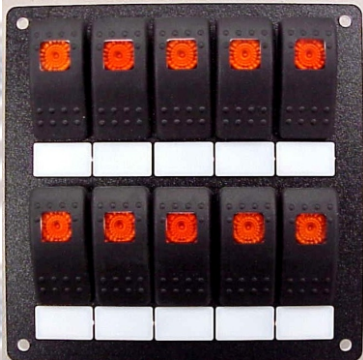
2573 East Kercher Road
Goshen, Indiana 46528
Toll Free 1-866-457-7790

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

Speciality Vehicle Power Center

RCT-01279-00000

Switch Center, Size 6x6 inch



RCT-01277-00000

Rotary Switch Center, Size 6x6 inch



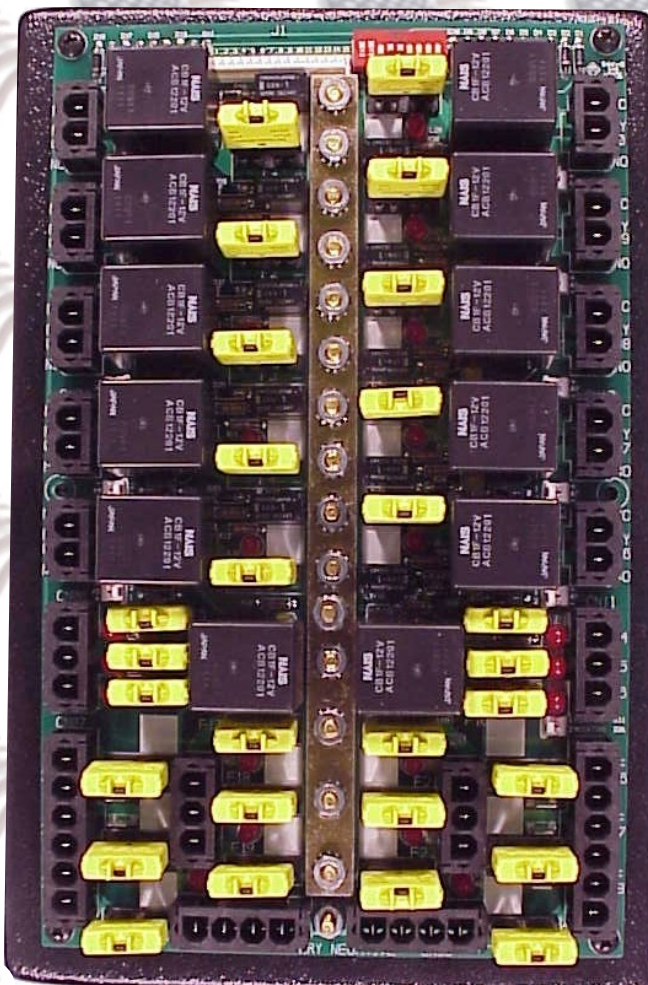
RCT-01276-00000

Slider Switch Center, Size 6x6 inch



RCT-01431-00000

Power Center, Size 7x10.25 inch



RCT-01295-00000

Switch Center, Size 2.85x7.25 inch



RCT-01297-00000

Rotary Switch Center, Size 2.85x7.25 inch



RCT-01296-000

Slider Switch Center, Size 2.85x7.25 inch



All "Switch Centers", have a progressive load capability which permits sequencing of loads, ie; "Rear Flash-Front Flash-Light Bar-Siren".

Plug-In-Play

R. C. Tronics Incorporated

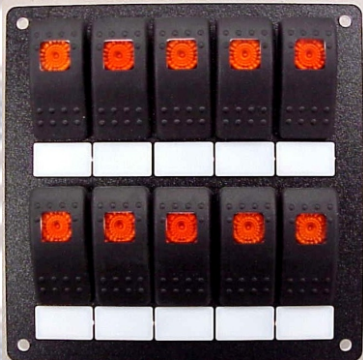
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Speciality Vehicle Power Center

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Switch Center, Size 6x6 inch



RCT-01277-00000

Rotary Switch Center, Size 6x6 inch



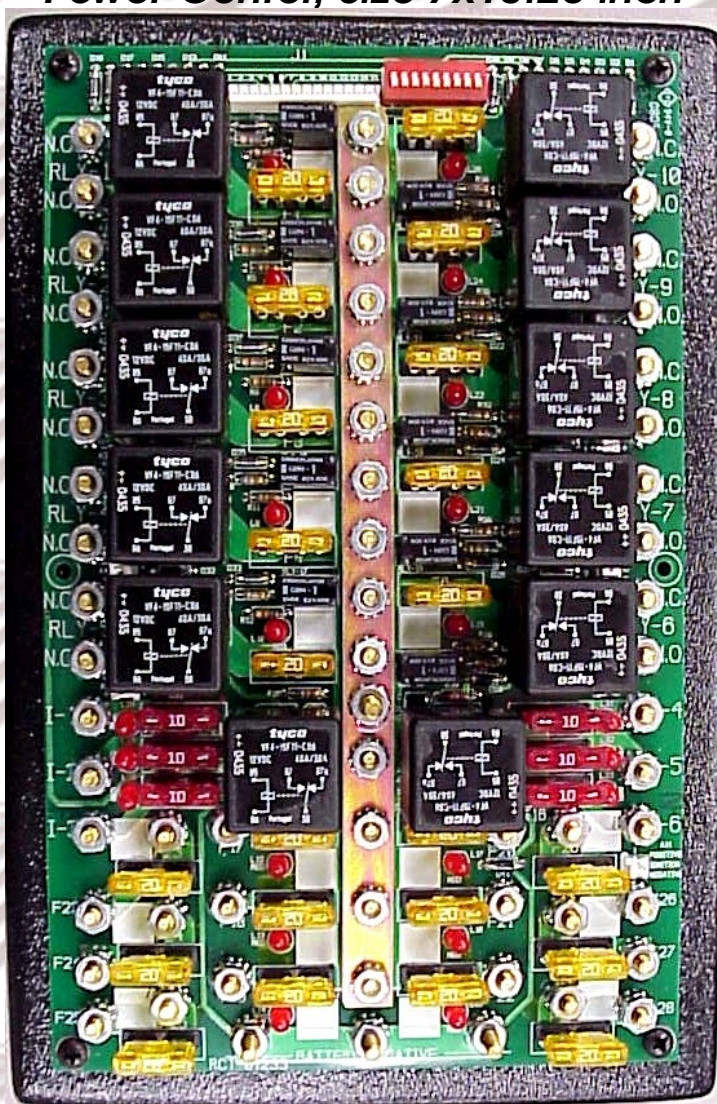
RCT-01276-00000

Slider Switch Center, Size 6x6 inch



RCT-01233-00000

Power Center, Size 7x10.25 inch



RCT-01295-00000

Switch Center, Size 2.85x7.25 inch



RCT-01297-00000

Rotary Switch Center, Size 2.85x7.25 inch



RCT-01296-000

Slider Switch Center, Size 2.85x7.25 inch



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Police Vehicle Power Center RCT-01233-00000

+12 VDC, Size Conductor For Total Connected Load

J1 Header Supports all standard switch panels
RCT-01276, RCT-01277 & RCT-01279
or
RCT-01295, RCT-01296 & RCT-01297

9 Position Dip-Switch Permits Rly-1
thru Rly-10 to become progressively
energized. (Rly-1 will remain on when
Rly-2 is energized, ect.)

Rly-01 thru Rly-10 are en-
ergized via J1 header
located on Power Center,
or by a positive or negative Rly-01

Rly-01

J1 heder interfaces with
all six standard switch-
panels, with gun lock
safety interface.

Rly-02

Rly-03

Each relay is fuse or circuit
breaker protected up to a
maxim of 30 ampere.

Rly-04

Rly-05

Ignition Power, each output
may be fused to 30 ampere
Total current may not exceed
30 ampere.

I-1

I-2

I-3

Three isolated fuses, maxim
30 ampere.

F23

F24

F25

Rly-10

Each fuse is monitored
with a red led to depict
an open circuit.

Rly-09

Rly-08

Fuse can be removed and
a ground may be placed
so a ground may be
output.

Rly-07

Rly-06

I-4 Ignition Power, each output
may be fused to 30 ampere
I-5 Total current may not exceed
I-6 30 ampere.

I-4

I-5

F26

F27

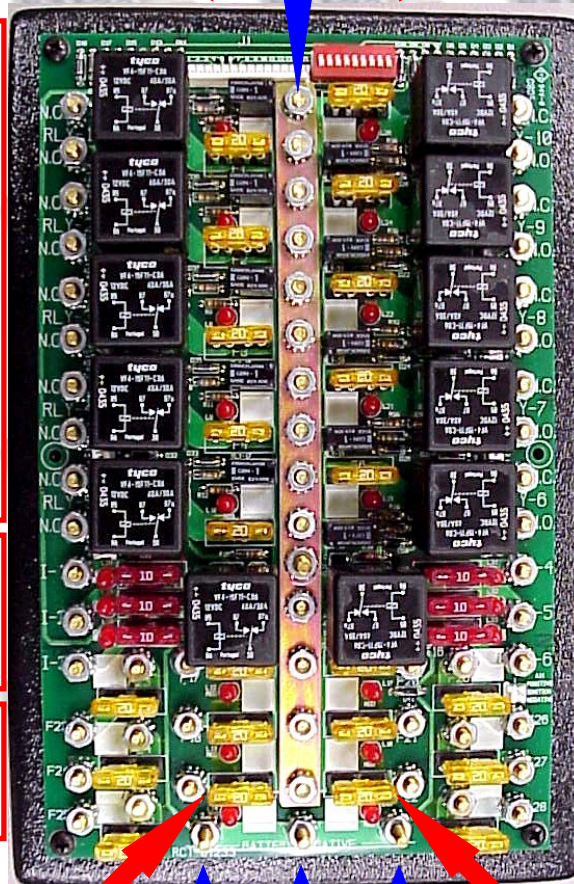
F28

Three isolated fuses, maxim
30 ampere.

F-17, F18 & F19 - 30 ampere maxim each

Battery Negative
Size Main Conductor
For Maxim Connected Load

F-20, F21 & F22 - 30 ampere maxim each



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RCT-01292-00000 Console Ford Crown Victoria

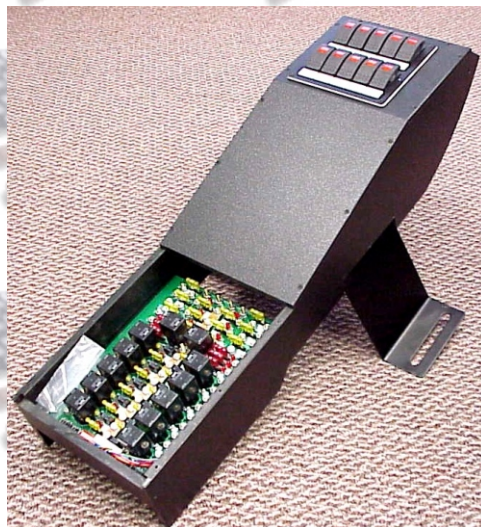
Top section is 8.25 left to right and 7 inches top to bottom, and will support any three Carling Switch Panels shown below.



Center area is 8.25 inches left to right by 10.6 inches top to bottom. Can be cut to fit to house your electronic controls

Console rear is 8.25 left to right and 10.5 top to bottom. Convenient area to mount computer work station

Power Center mounts in console rear as shown. Switches control ten power relays. Each relay will support 30 amperes and is monitored with an amber led, located by each power relay. Each relay and load is fuse or circuit breaker protected



Each switch can be programmed for either battery operation or ignition operation

Two ignition relays provide 60 ampere of power. Six circuits.

RCT-01279-00000 Carling Switch with Superbright LED Showing Load is "ON". Switch is water proof. Switch nomenclature per your requirements.

Console is very pleasing in appearance, easily cleaned. All parts can be separately ordered.

Speakers can be mounted on each side.

Power receptacles can be mounted and controlled by ignition or battery power.

Switch #10 can be used for "GUN LOCK" a unique input is provided to keep weapon safe from unauthorized use.

Six constant hot fuses are provided up to 30 ampere.

Six isolate fuses provide for unique applications.

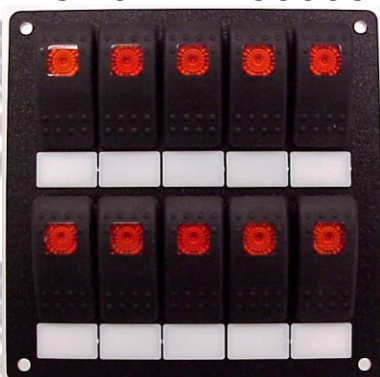
Battery negative four 6/32 stud and nuts. PCB bottom.

All power relays can be operated with either a positive or negative signal.

All "Switch Centers", have a progressive load capability which permits sequencing of loads, ie; "Rear Flash-Front Flash-Light Bar-Siren".

Faceplate Size 6 x 6 inches

RCT-01279-00000



RCT-01276-00000



RCT-01277-00000



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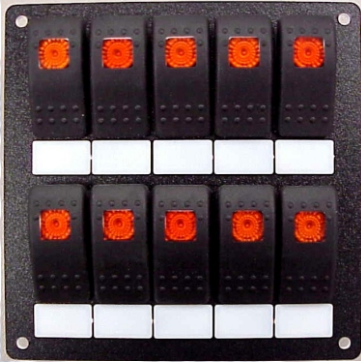
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Speciality Vehicle Power Center

RCT-01279-00000

Switch Center Size 6x6 inch



RCT-01277-00000

Rotary Switch Center Size 6x6 inch



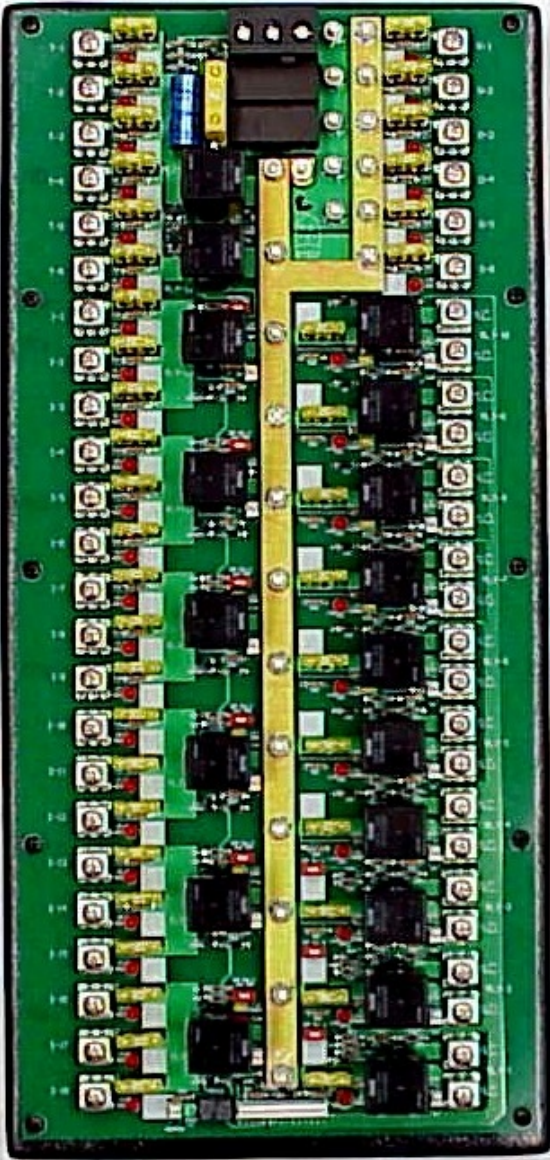
RCT-01276-00000

Slider Switch Center Size 6x6 inch



RCT-01327-00000

Power Center, Large, Size 9.525x19.675



RCT-01295-00000

Switch Center, Size 2.85x7.25 inch



RCT-01297-00000

Rotary Switch Center, Size 2.85x7.25 inch



RCT-01296-000

Slider Switch Center, Size 2.85x7.25



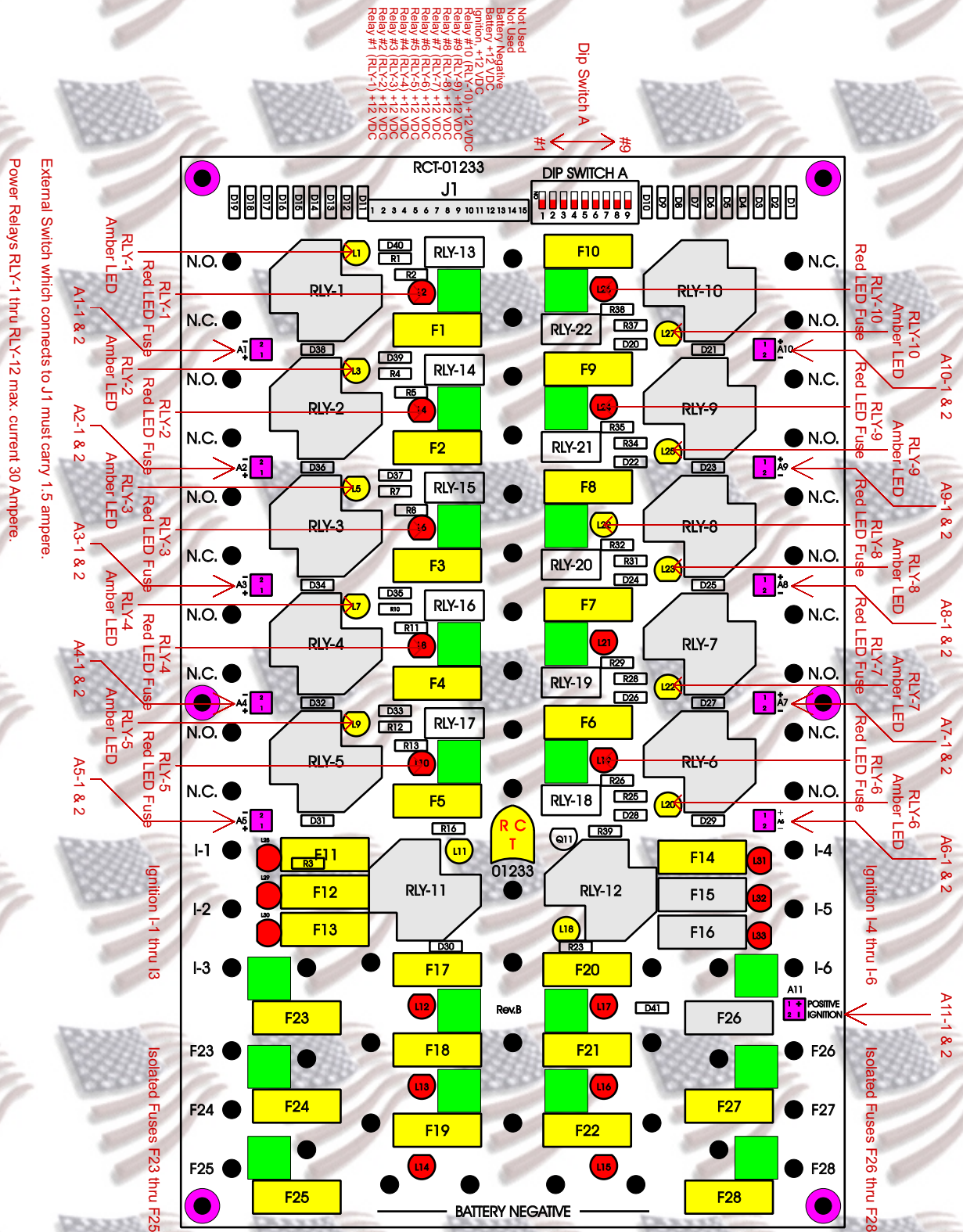
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Speciality Vehicle Information Power Center RCT-01233



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Goshen, Indiana 46528
Fax 1-574-642-3858
Email: dchiddister@rctronics.com

Police Vehicle Power Center RCT-1233

Power Center provides 12 VDC distributions with the use of 12 each power relays. Each relay has the ability to supply 40 amperes intermittent and 30 ampere continuous. Each relay is fuse protected and monitored for an “OPEN” condition with a “RED LED”, circuit breakers instead of fuses are optional.

Each relay, Rly-1 thru Rly-10 can be energized with a two position header located adjacent to each relay, marked A1 thru A2. Pin #1 will require a “Positive” voltage and Pin #2 requires a “Negative” input, both “source or sink” current is approximately .15 ampere.

The above ten relays can be operated with a positive signal only at the J1 connector. The pin-outs are as follows.

J1-01 Relay #1 (RLY-1)
J1-02 Relay #2 (RLY-2)
J1-03 Relay #3 (RLY-3)
J1-04 Relay #4 (RLY-4)
J1-05 Relay #5 (RLY-5)
J1-06 Relay #6 (RLY-6)
J1-07 Relay #7 (RLY-7)
J1-08 Relay #8 (RLY-8)
J1-09 Relay #9 (RLY-9)
J1-10 Relay #10 (RLY-10)
J1-11 Ignition, Powered by Relay #11, +12VDC
J1-12 Battery + 12 VDC
J1-13 Battery Negative, Un-switched
J1-14 Not Used
J1-15 Not Used

Relays #1 thru #10 may be progressively operated with a positive input thru connector J1-1 thru J1-10.

By placing switch #1 to the “on” position at “Dip Switch A” and then placing a positive signal to J1-2 will cause RLY-1 and RLY-2 to operate which can be verified by the amber led nested below RLY-1 and RLY-2.

By placing switch #2 to the “on” position at “Dip Switch A” and then a positive input to J1-3 will cause RLY-1, RLY-2 and RLY-3 to operate.

You will be able to place, sequentially each of the remaining switches #3 thru #9 to the “on” position at “Dip Switch A” and progressively operate remaining relays, RLY-4, RLY-5, RLY-6, RLY-7, RLY-8, RLY-9 and RLY-10.

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8

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J1-05 Relay #5 (RLY-5)
J1-06 Relay #6 (RLY-6)
J1-07 Relay #7 (RLY-7)
J1-08 Relay #8 (RLY-8)
J1-09 Relay #9 (RLY-9)
J1-10 Relay #10 (RLY-10)
J1-11 Ignition, Powered by Relay #11, +12VDC
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J1-13 Battery Negative, Un-switched
J1-14 Not Used
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By placing switch #2 to the “on” position at “Dip Switch A” and then a positive input to J1-3 will cause RLY-1, RLY-2 and RLY-3 to operate.

You will be able to place, sequentially each of the remaining switches #3 thru #9 to the “on” position at “Dip Switch A” and progressively operate remaining relays, RLY-4, RLY-5, RLY-6, RLY-7, RLY-8, RLY-9 and RLY-10.

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All external switching connected to connector J1 should have the ability to switch 12 VDC at 1.5 ampere.

Relays #1 thru #10 have both N.C. & N.O. outputs connected to an 8/32 brass screw which is soldered into the printed circuit board. A self locking 11/32 nut is supplied so as to terminate the load wire with.

Relays #11 & #12 are “IGNITION” relays each capable of carrying 30 ampere each for a total of 60 ampere at 12 VDC. There are a total of six 10 ampere circuits which are monitored by red LED’s which depicts an open fuse and is available for “Ignition Loads”. These two relays, RLY-11 & RLY-12 may be operated by either a positive or negative signal with a 2 position header labeled A11-1 positive and A11-2 negative. (.3 ampere maximum for both positive or negative.) Note: other fuse arrangements may be used so long as the total current rating of the relay is not exceeded. (30 ampere) Ignition outputs are labeled I-1 thru I6.

Additionally there are six “constant power” circuits available, each are monitored by a red LED which will depict an open fuse. The outputs are labeled F-17 thru F-22.

Lastly there are six isolated fuses, Labeled F-23 thru F28.

The overall size is: 10.75 inches top to bottom, 7.0 inches left to right and 3.0 inches high. Total weight is 3 pounds.

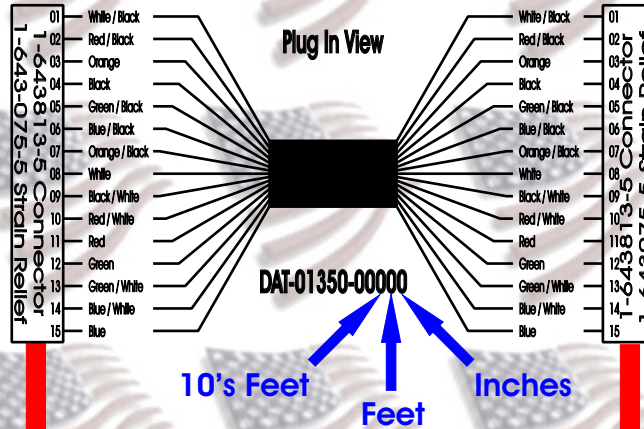
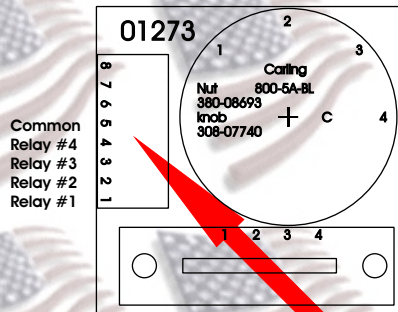
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Connection Diagram PCB-01233, PCB-01291 & PCB-01273

PCB-01273



- | | |
|----|---------------------------------------|
| 01 | J1-01 - Relay #1 |
| 02 | J1-02 - Relay #2 |
| 03 | J1-03 - Relay #3 |
| 04 | J1-04 - Relay #4 |
| 05 | J1-05 - Relay #5 |
| 06 | J1-06 - Relay #6 |
| 07 | J1-07 - Relay #7 |
| 08 | J1-08 - Relay #8 |
| 09 | J1-09 - Relay #9 |
| 10 | J1-10 - Relay #10 |
| 11 | J1-11 - Ignition, +12 VDC |
| 12 | J1-12 - Battery, +12 VDC |
| 13 | J1-13 - Battery Negative |
| 14 | J1-14 - Negative Input, Enable Rly-10 |
| 15 | J1-15 - Positive Input, Enable Rly-10 |

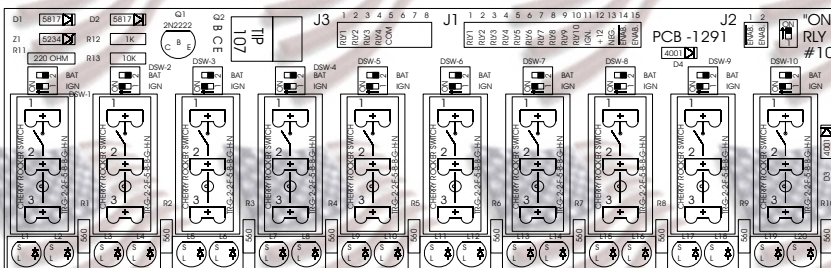
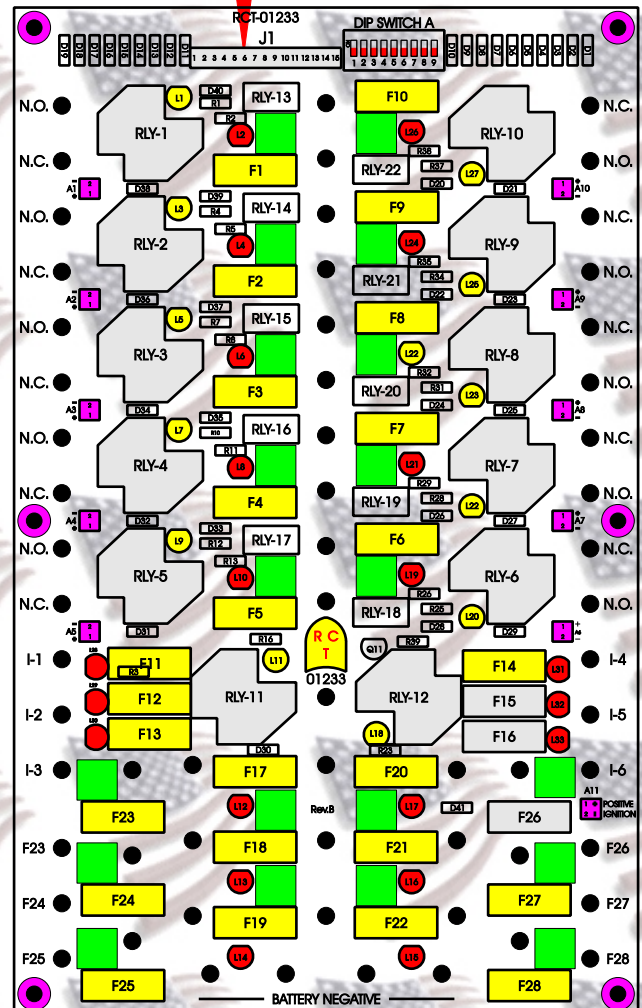
J2-1 Positive Input, Enable's Relay #10
J2-2 Negative Input, Enable's Relay #10

With "DIP SWITCH" "OFF" Position & Switch #10 "ON" position an input must be present at J1 pin #1 or #2 for Relay #10 will operate. (Provides secrete input for, "GUN UNLOCK".

Dip Switch "ON" Position Relay #10 will operate when switch #10 is placed to the "ON" position.

DSW-1 thru DSW-10 may be set to operate power relays with "IGNITION" or be set to operate with "BATTERY". (Battery will operate relays anytime switch is place to the "ON" position.

PCB-01233



PCB-01291

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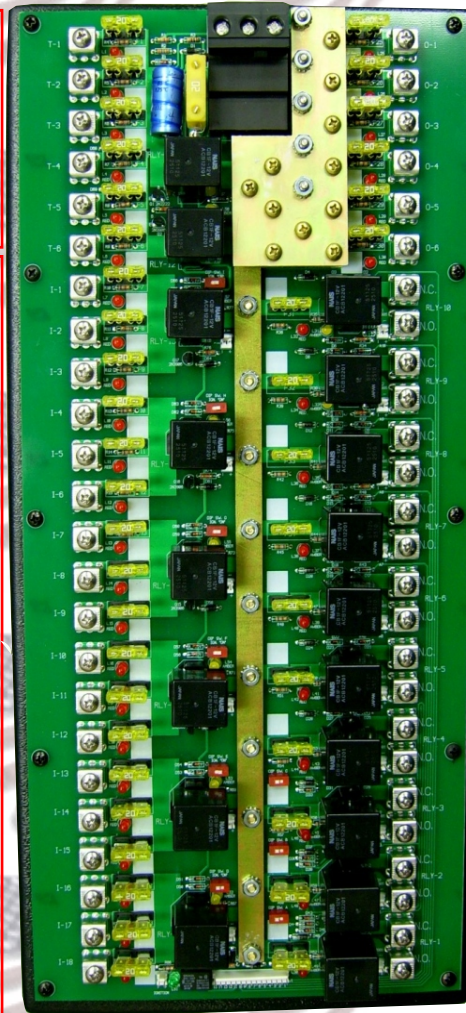
Speciality Vehicle RCT-01327-00000 Power Center, Large

+12 VDC
MAXFUSE +12 VDC OUTPUT BATTERY NEGATIVE

T-1 thru T-6 Outputs operate with "IGNITION". Delay "OFF" 5 minutes after ignition signal is removed from "POWER CENTER". T-3 Fuse, or optional circuit breaker protected. Each fuse is monitored with red led depicting an open fuse.

T-1
T-2
T-3
T-4
T-5
T-6

Rly-13 outputs +12 VDC to I-0 thru I-03, up to 30 ampere each. I-01
I-02
Rly-14 outputs +12 VDC to I-04 thru I-06, up to 30 ampere each. I-03
I-04
I-04
Rly-15 outputs +12 VDC to I-07 thru I-09, up to 30 ampere each. I-05
I-06
I-06
Rly-16 outputs +12 VDC to I-10 thru I-12, up to 30 ampere each. I-07
I-08
I-07
Rly-17 outputs +12 VDC to I-13 thru I-15, up to 30 ampere each. I-08
I-09
I-08
Rly-18 outputs +12 VDC to I-16 thru I-18, up to 30 ampere each. I-10
I-11
I-10
Each fuse or optional circuit breaker is monitored with red led depicting an open fuse. I-12
I-13
I-14
Each relay can be energised with a positive or negative signal input or by ignition, selected via dip switch mounted on PCB. I-15
I-16
I-17
All relays show operation by amber led. I-18



O-1
O-2 O-1 thru O-6 are constant "HOT" and will provide connected loads with fuse or optional circuit breaker protection. 30 ampere maximum each output.
O-3
O-4
O-5
O-6

Rly-10 Rly-01 thru Rly-10 are energised via J1 header located on Power Center, or by a positive or negative signal, via two pin header located by each relay.
Rly-09
Rly-08 J1 header interfaces with all six standard switch-panels, with gun lock safety interface.
Rly-07
Rly-06 Each relay is fuse or circuit breaker protected up to a maxim of 30 ampere.
Rly-05
Rly-04 Each fuse is monitored with a red led to depict an open circuit.
Rly-03 Each relay has both a normally open and closed output.
Rly-02
Rly-01 Fuse can be remove and a ground may be placed so a ground may be output.

Ignition Input
Positive or Negative

J1 Header Supports
all standard switch panels
RCT-01276, RCT-01277 & RCT-01279
or
RCT-01295, RCT-01296 & RCT-01297

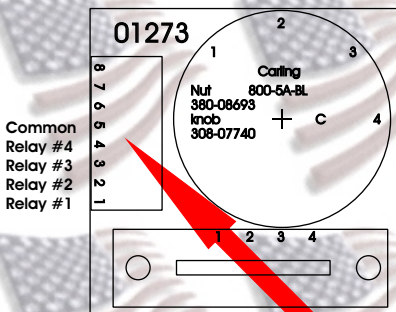
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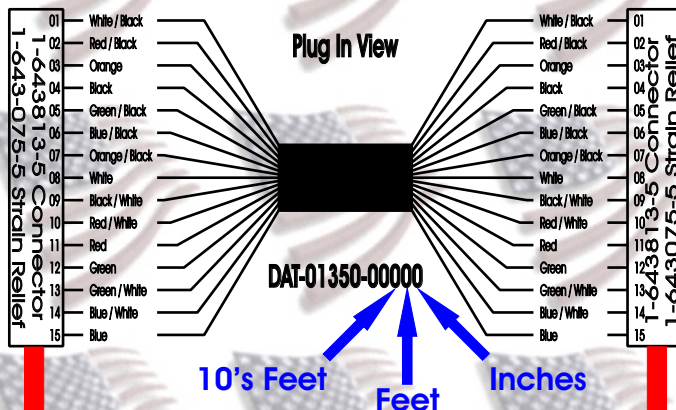
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Connection Diagram PCB-01327, PCB-01268 & PCB-01273

PCB-01273



Plug-In View
DAT-01348-00006 (6 Inch)



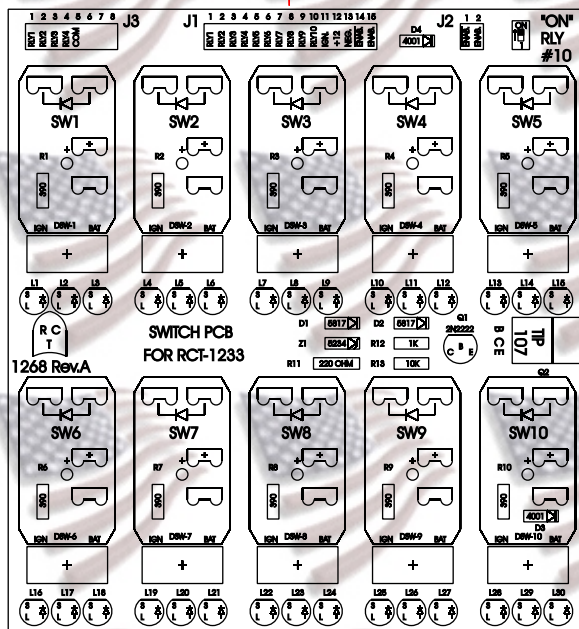
- 01 White / Black
 - 02 Red / Black
 - 03 Orange
 - 04 Black
 - 05 Green / Black
 - 06 Blue / Black
 - 07 Orange / Black
 - 08 White
 - 09 Black / White
 - 10 Red / White
 - 11 Red
 - 12 Green
 - 13 Green / White
 - 14 Blue / White
 - 15 Blue
- J1-01 - Relay #1
 - J1-02 - Relay #2
 - J1-03 - Relay #3
 - J1-04 - Relay #4
 - J1-05 - Relay #5
 - J1-06 - Relay #6
 - J1-07 - Relay #7
 - J1-08 - Relay #8
 - J1-09 - Relay #9
 - J1-10 - Relay #10
 - J1-11 - Ignition, +12 VDC
 - J1-12 - Battery, +12 VDC
 - J1-13 - Battery Negative
 - J1-14 - Negative Input, Enable Rly-10
 - J1-15 - Positive Input, Enable Rly-10

J2-1 Positive Input, Enable's Relay #10
J2-2 Negative Input, Enable's Relay #10

With "DIP SWITCH" "OFF" Position & Switch #10 "ON" position an input must be present at J1 pin #1 or #2 for Relay #10 will operate. (Provides secrete input for, "GUN UNLOCK".

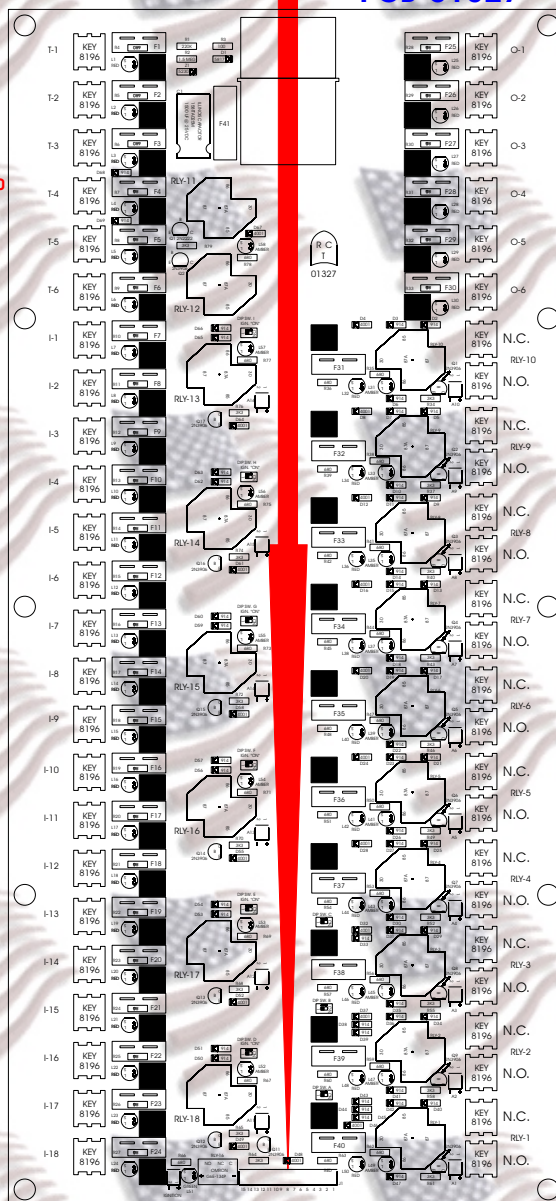
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DSW-1 thru DSW-10 may be set to operate power relays with "IGNITION" or be set to operate with "BATTERY". (Battery will operate relays anytime switch is place to the "ON" position.



PCB-01268

PCB-01327



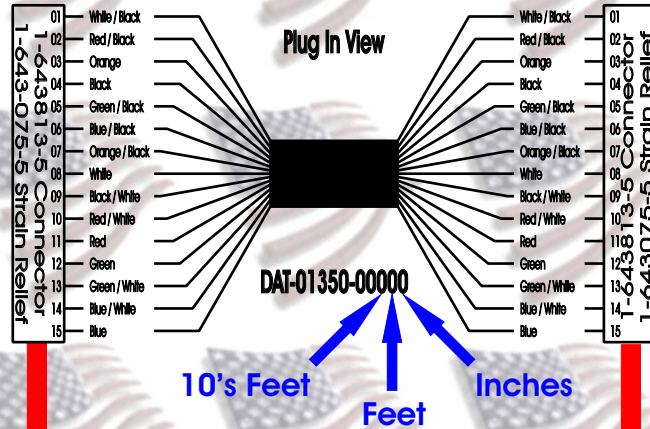
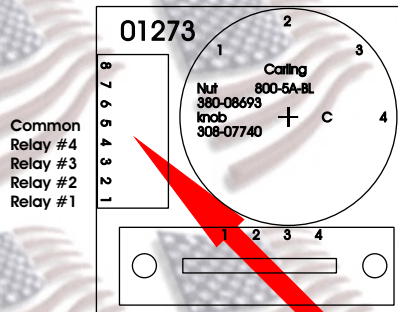
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Connection Diagram PCB-01233, PCB-01291 & PCB-01273

PCB-01273



- J1-01 - Relay #1
- J1-02 - Relay #2
- J1-03 - Relay #3
- J1-04 - Relay #4
- J1-05 - Relay #5
- J1-06 - Relay #6
- J1-07 - Relay #7
- J1-08 - Relay #8
- J1-09 - Relay #9
- J1-10 - Relay #10
- J1-11 - Ignition, +12 VDC
- J1-12 - Battery, +12 VDC
- J1-13 - Battery Negative
- J1-14 - Negative Input, Enable Rly-10
- J1-15 - Positive Input, Enable Rly-10

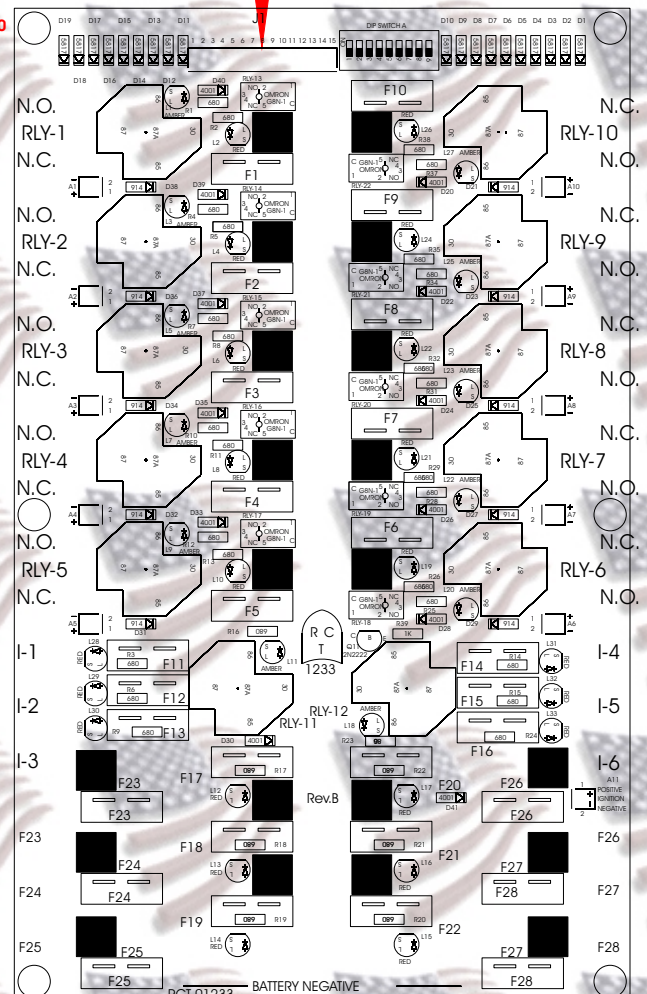
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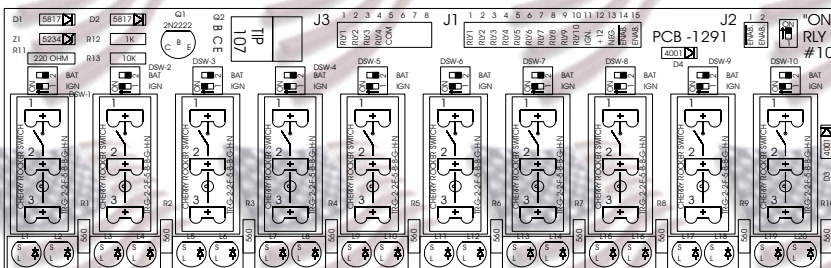
Dip Switch "ON" Position Relay #10 will operate when switch #10 is placed to the "ON" position.

DSW-1 thru DSW-10 may be set to operate power relays with "IGNITION" or be set to operate with "BATTERY". (Battery will operate relays anytime switch is place to the "ON" position.

PCB-01233



PCB-01291

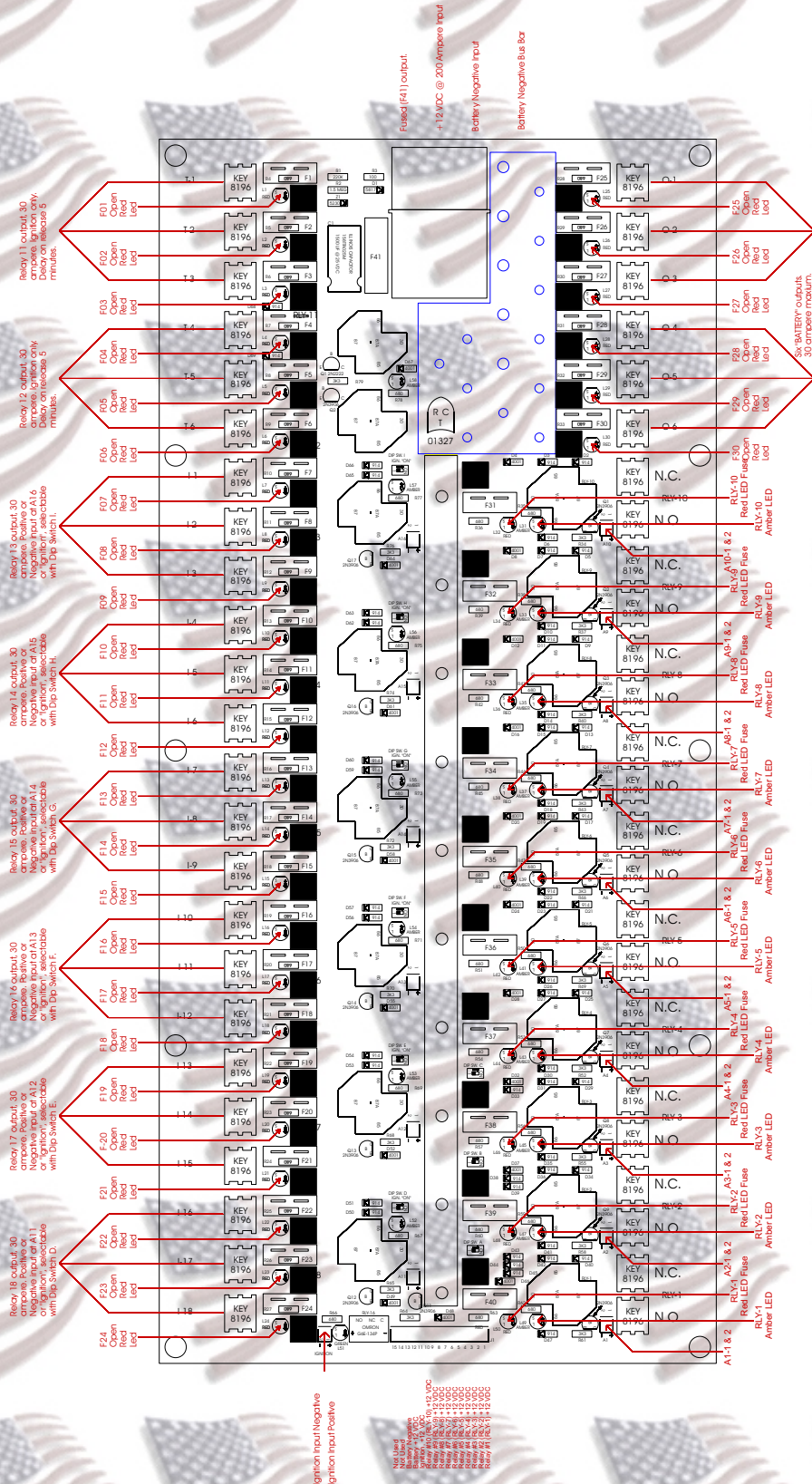


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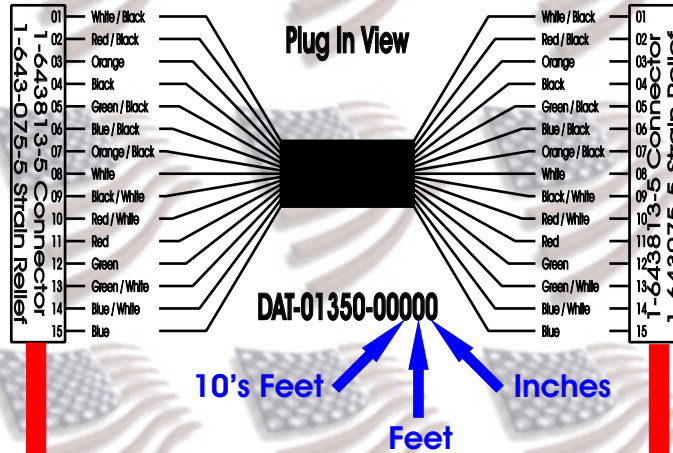
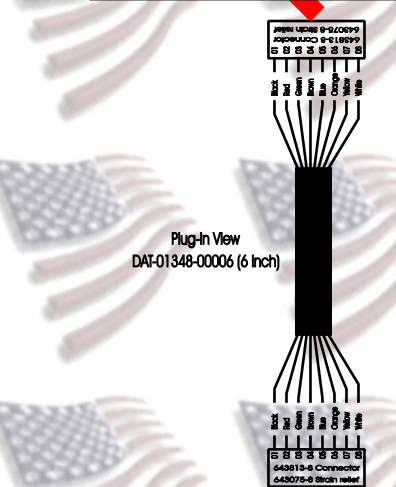
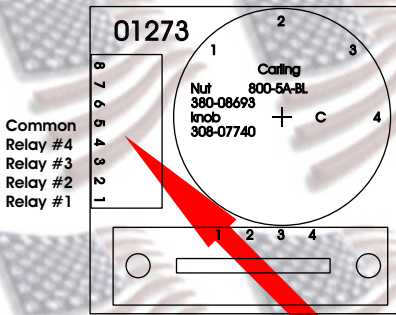
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Connection Diagram PCB-01233, PCB-01268 & PCB-01273

PCB-01273



- J1-01 - Relay #1
- J1-02 - Relay #2
- J1-03 - Relay #3
- J1-04 - Relay #4
- J1-05 - Relay #5
- J1-06 - Relay #6
- J1-07 - Relay #7
- J1-08 - Relay #8
- J1-09 - Relay #9
- J1-10 - Relay #10
- J1-11 - Ignition, +12 VDC
- J1-12 - Battery, +12 VDC
- J1-13 - Battery Negative
- J1-14 - Negative Input, Enable Rly-10
- J1-15 - Positive Input, Enable Rly-10

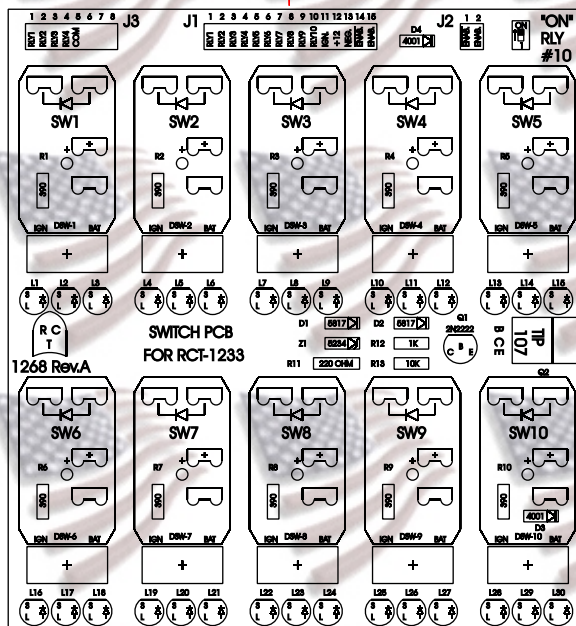
10's Feet
Feet
Inches

J2-1 Positive Input, Enable's Relay #10
J2-2 Negative Input, Enable's Relay #10

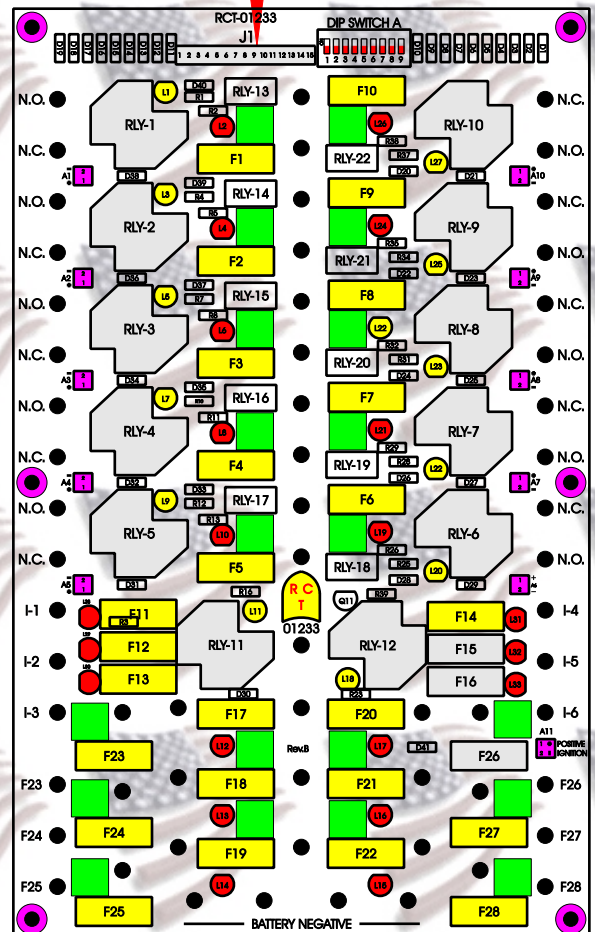
With "DIP SWITCH" "OFF" Position & Switch #10 "ON" position an input must be present at J1 pin #1 or #2 for Relay #10 will operate. (Provides secrete input for, "GUN UNLOCK").

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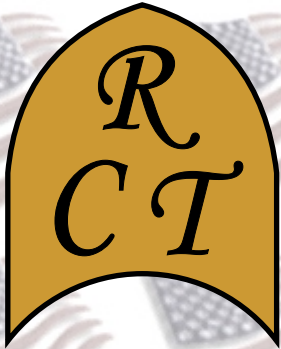


PCB-01268



PCB-01233

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