Data Chip Adapter to System 1/4/5/10

MOUNT THE ADAPTER

Connect the Data Chip Adapter between the Data Chip reader and the access control system. Mount the adapter inside the access control cabinet with the supplied double stick tape. It may also be located up to 500 feet away from the access system.

POWER SUPPLY CONSIDERATIONS

System 1:
A System 1 already has the necessary 12VDC to power the adapter. A separate power source is not necessary.

System 4/5/10:
A System 4/5/10 requires a separate 12VDC power supply to power the adapter.

WIRE CONNECTIONS

System 1:
Red (Strobe) connect to System 1's common negative (Terminal #5).

BCD Input Data Lines connections:
Black (Data 8) to Terminal #10.
Yellow (Data 1) to Terminal #7.
Green (Data 2) to Terminal #8.
White (Data 4) to Terminal #9.

Brown (LED) connect to Terminal #19.

Blue (-) negative VDC supply voltage input.
Connect to Terminal #5.

System 4/5/10:
Red (Strobe) connects to one of the System 4/5/10's strobe lines (Terminals #11-14).

BCD Input Data Line connections:
Black (Data 8) to Terminal #6.
Yellow (Data 1) to Terminal #7.
White (Data 4) to Terminal #8.
Green (Data 2) to Terminal #9.
Brown (LED) connect to one of the System 4/5/10 LED Outputs (Terminals #33-36). Match the LED Output to the Strobe input used (Red wire). User Terminal #33 for strobe #11, #34-#12, #35-#13, #36-#14.

Blue (-) negative VDC supply voltage input.
Connect to Terminal #5.

SCREW TERMINAL CONNECTIONS

LED is the (+) LED Driver. It can source up to 50mA of current. Connect to the red wire of the reader LED.

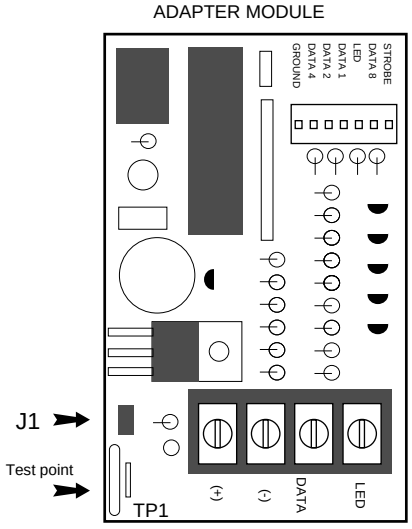
DATA is the reader input wire. Connect to the grey wire on the Data Chip reader.

(-) negative VDC supply voltage input. Connect to the black wire on the Data Chip reader and to the (-) on the power supply.

(+) positive 12VDC supply voltage. This voltage should be uninterrupted and able to supply a minimum of 120ma for the circuit board, and 20ma for each LED.

POWER THE ADAPTER

Before power-up, install the small black jumper on the two pins marked J1. J1 is located next to the LED. This will reset the adapter and clear any Batch ID numbers that are in memory. Apply 12VDC to the adapter module. Terminal 1 is (+) and Terminal 2 is (-).



SET BATCH ID NUMBER

- Be sure the small black jumper is installed on the two pins of J1.
- Touch one Data Chip from each batch to the test point on the adapter. The test point is directly below J1.
- If you receive multiple batches in your shipment, a Data Chip from each batch must be touched to the test point to enable the cards in that batch.
- The LED on the adapter flashes several times to indicate the Data Chip was read and the batch ID number was accepted.
- Remove the small black jumper and place it on one of the two pins. It is needed to program additional batches in the future.

IMPORTANT: It is highly recommended that you save one Data Chip from each batch. This will allow re-programming of an adapter if one needs to be replaced.

Data Chips send a 48 bit number to the adapter module and some of these bits are used as the Batch ID number. The adapter automatically reads and stores the batch ID number into EEPROM memory, it cannot be lost if power is removed from the adapter. The Data Chip Adapter supports up to 30 simultaneous batch ID numbers.

TEST POINT

The test point is used to set the Batch ID number or test a Data Chip. The test point consists of a vertical metal contact next to an exposed pad area on the printed circuit board of the adapter module, labeled TP1. To test a Data Chip or set its batch ID number, place the edge of the Data Chip on the pad and lean the smaller flat surface against the vertical metal contact.

LED INDICATORS

The adapters LED will flash when the Batch ID number is programmed into the adapter or whenever a Data Chip is successfully read, provided the Batch ID number was programmed first.

The reader and adapter LEDs will flash simultaneously. Each time a Data Chip is touched to the reader the LED will flash. When a valid chip is touched to the reader, the LED will flash and then illuminate for the door relay activation time.

PROGRAMMING

System 4/5/10:

- **Program the ports as KEYPAD ONLY.**

- **Set the code length to five digits.**

These are normal default settings on power-up and do not need to be changed on new installations.

The Facility Code setting is not used with Data Chips.

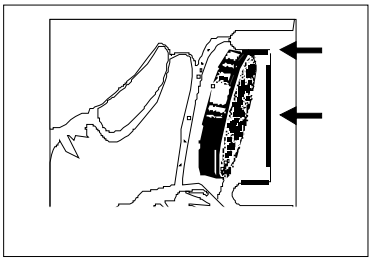
System 1:
Installations only require the code length be set to five digits.

VERY IMPORTANT!

When touching a Data Chip to the reader be sure the side of the chip is touching the inside rim of the reader, and the chips center is touching the center of the reader.

To Test the Programmed Chips
Touch any programmed chip to the reader. If the LED flashes the adapter is working correctly.

To program the access control unit refer to the appropriate instruction manual.



Contact MUST be made with both the center and the inside rim of the reader.

STATIC PROTECTION

The enclosed static grounding strap must be used. This strap consists of a ring terminal, disc capacitor, and black wire, and is included with all Data Chip readers. Connect the wire end of the strap to the negative (-) power supply connection of the keypad (the black wire). Connect the ring terminal end of the strap under one of the plate screws between the plate and the wall.

AUDIBLE FEEDBACK

A miniature 12VDC electronic buzzer can be wired in parallel with the LED to produce an audible feedback.

Two recommended buzzers/speakers are available from Radio Shack. Reference either part #273-026 or #273-055 when ordering from Radio Shack.

Black connects with the yellow LED wire and the yellow (-) LED Driver on the circuit board.

Red connects with the red LED wire, the red wire of the circuit board and the (+) positive VDC supply voltage input. For installation refer to the Wire Connection section.

CAUTION !!!

If you use this product to operate a DC door strike, magnetic lock, relay, or any device that has a coil (inductive load) that is powered from a DC source; you MUST install a diode, in parallel, across the coil terminals. Use a 1N4001, 1N4002 or equivalent. Connect the stripe side of the diode to the coil terminal that becomes positive (+). Connect the other side to the other end of the coil. Proper installation of this diode will prevent the high voltage spike that occurs whenever a coil is de-energized.

If you do not use this diode, you will have erratic operation and will eventually damage the unit and any other electronic device in the system. Corby supplies the necessary diodes within the screw pack of this product, please use them.

LIMITED WARRANTY

If you have questions regarding installation or would like to receive information on Corby's warranty practices call us at (610) 433-1412.

Corby Industries, Inc. and/or the seller's only obligation shall be to replace such quantity of the product proved to be defective. Neither the seller nor Corby shall be liable for any injury, loss, or damage arising out of the use or the inability to use this product, including the warranty of merchantability or fitness for normal use. Before using, the user shall determine the suitability of the product for his intended use. The user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be altered except by an agreement signed by the officers of the seller and those of Corby Industries, Inc.

PARTS/ACCESSORIES

#4301 Data Chip Adapter circuit board

Readers w/ 12VDC LED(s):
#4302 Single gang with one green LED

#4303 Single gang with one green and one red LED

#4304 Mullion with one green LED

#4305 Mullion with one green and one red LED

#4306 Reader only (no plate) with one green LED

#4307 Mullion, black surface mount with bi-color LED

Data Chips:
#4320 Data Chip assembled on a keyring with Corby logo

#4321 Data Chip only - for use with badges, photo ID cards, or any smooth surface (also need to purchase #4323)

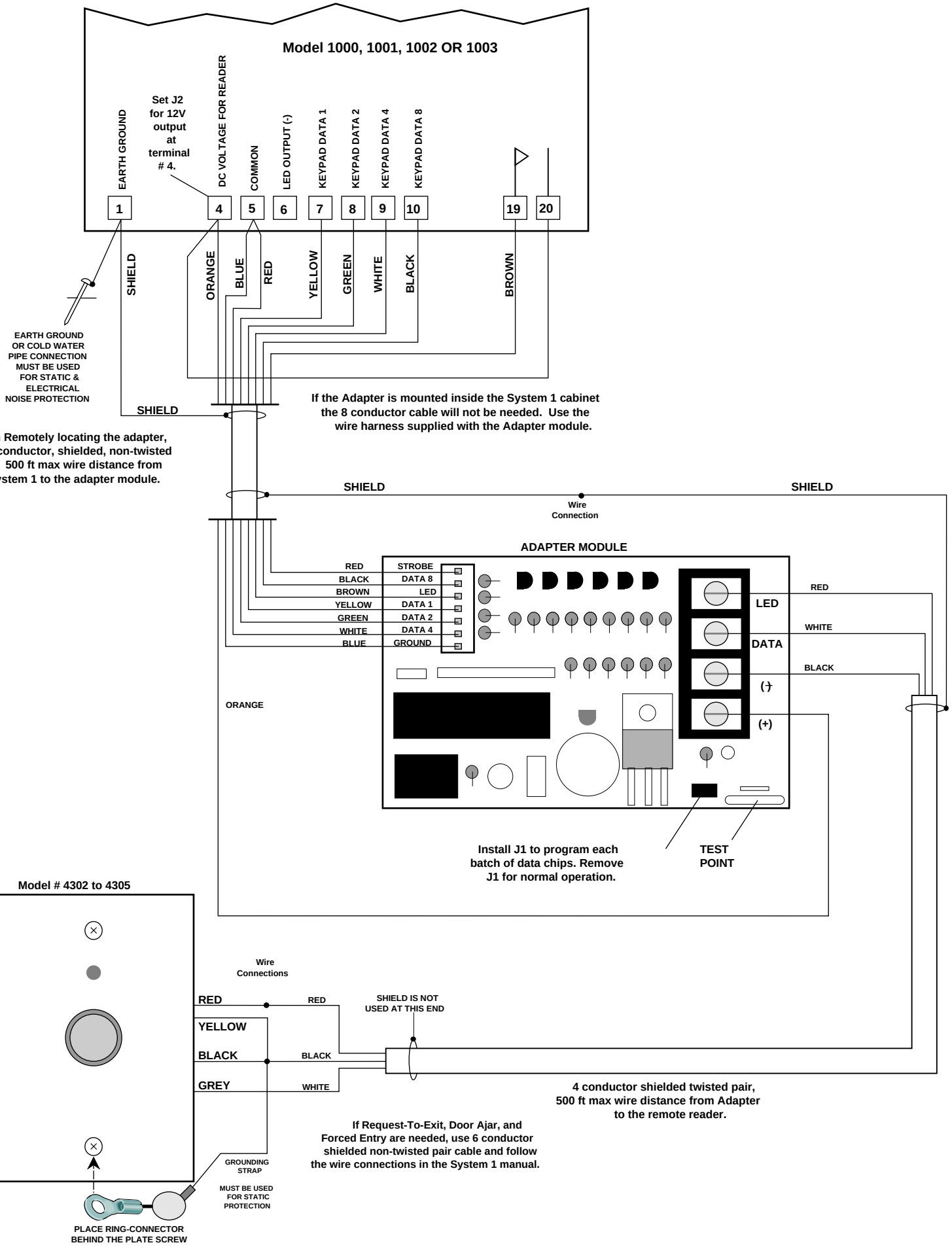
Adhesive:
#4323 Roll of double-stick tape (dots) for Data Chips (#4321) 100.

SPECIFICATIONS

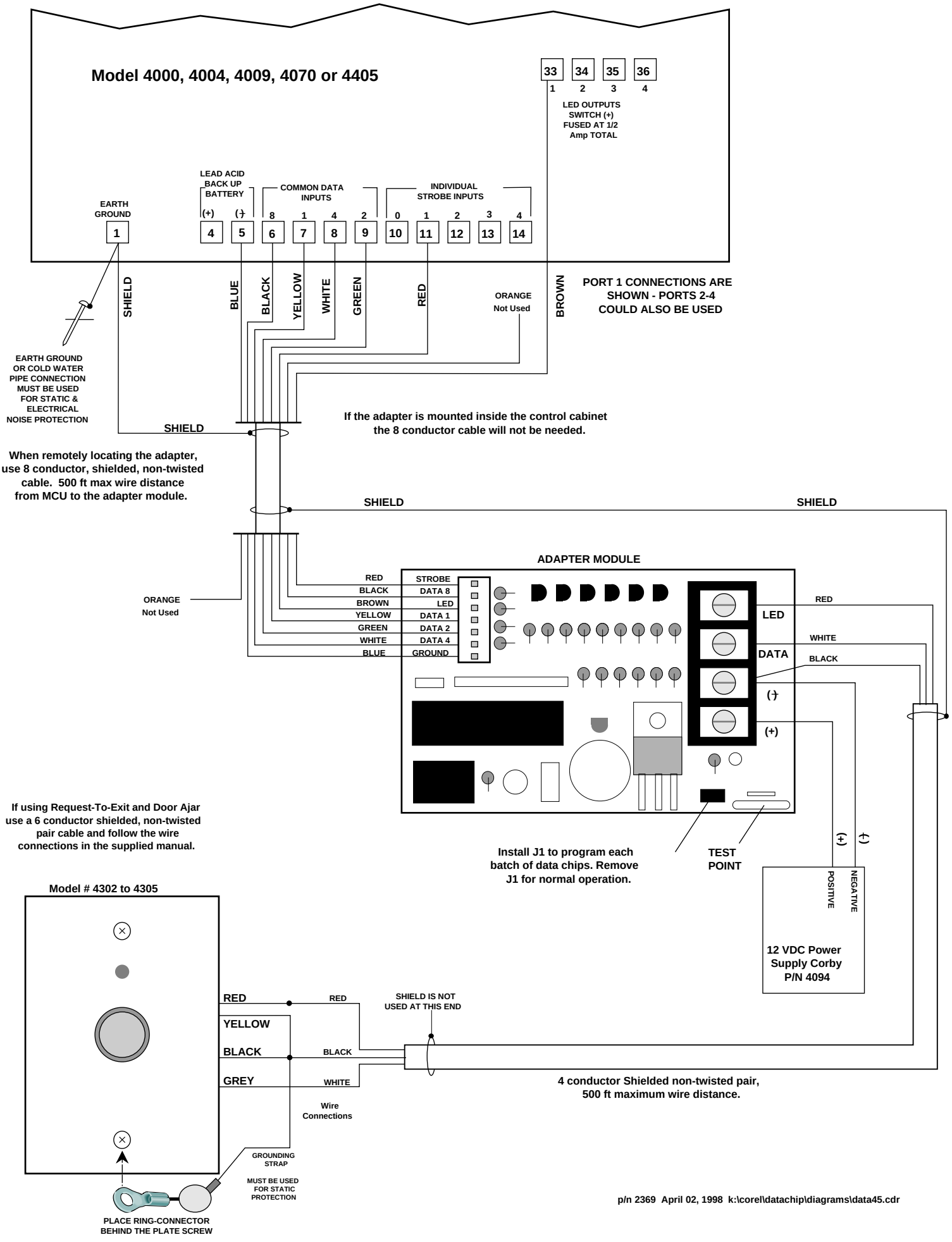
Input Voltage: 12 Volt DC Only
Power Consumption: 25ma @ rest
75ma maximum
Operating Temperature:
Adapter:-18 C to 55 C (0 F to 131 F)
Reader:-20 C to 70 C (-4 F to 158 F)
Dimensions:
Data Chip: .642" Diameter
.126" Depth
Data Chip Reader:.83" Diameter
.40" Surface Depth
.88" Overall Depth
Mullion Size Plate: 1.375" X 3.125"
Single Gang Plate: 2.75" X 4.50"
Adapter to Reader distance: 500 ft.

If it's Corby...
It's the Best!

Data Chip Adapter to SYSTEM 1



Data Chip Adapter to System 4/5/10



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