

Installation and Operation Instructions for Remotely Controlled Sequential Loadcenter Systems

Models covered:

ACL-100-SQ (formerly ACLC-100-20-SC248-ASM)	Loadcenter, 1 ph, 20 space, 20 circuit, 100A main brkr, w/ control unit (loadcenter dim: 21" H, 14 5/16" W, 3 7/8" D)
ACL-200-SQ (formerly ACLC-200-30-SC248-ASM)	Loadcenter, 1 ph, 30 space, 40 circuit, 200A main brkr, w/ control unit (loadcenter dim: 34 1/8" H, 14 5/16" W, 3 7/8" D)
ACL-125-SQ3P (formerly ACLC-3P-125-30-SC248-ASM)	Loadcenter, 3 ph, 30 space, 42 circuit, 125A main brkr, w/ control unit (loadcenter dim: 40 1/8" H, 15 13/16" W, 5 1/8" D)
ACL-225-SQ3P (formerly ACLC-3P-225-42-SC248-ASM)	Loadcenter, 3 ph, 42 space, 42 circuit, 225A main brkr, w/ control unit (loadcenter dim: 47" H, 15 1/2" W, 5 1/4 " D)
ACSC-248-ASM	Sequential control unit only Dim: 14" H, 14 5/16" W, 3 7/8" D
ACRB-20-1	Circuit breaker 20A single pole, soleniod operated (control cable included)
ACRB-20-2	Circuit breaker 20A double pole, soleniod operated (control cable included)
ACRB-30-1	Circuit breaker 30A single pole, soleniod operated (control cable included)
ACRB-30-2	Circuit breaker 30A double pole, soleniod operated (control cable included)
ACB-20-1	Circuit breaker 20A single pole (standard)

Table of Contents:

Page

Components included with / required with each system	2
Optional Accessories (order separately)	3
Surface Mount Installation Examples	4
Between Stud Installation Examples	5
Transformer Connection	6
Preliminary System Test	7
Circuit Breaker Control Cable Connection	8
System Switch Connection	9
Alternate Sequence Mode (ASM) Switch Connection	10
Alternate Sequence Mode (ASM) Programing	11
Independent Circuit Control Switch Connection	12
Alarm Interface / Master Control Connections	13
Notes on Grounding / Bonding Cutler Hammer BR Series Loadcenters	14
Control Unit Flex Cable Diagram	15

BEFORE BEGINNING, PLEASE NOTE: Depending upon the local construction trade situation, some or all of this installation may have to be performed by a "qualified electrician". Please consult with the AHJ (Authority Having Jurisdiction) and/or the General Contractor in charge of the project if there are any questions.

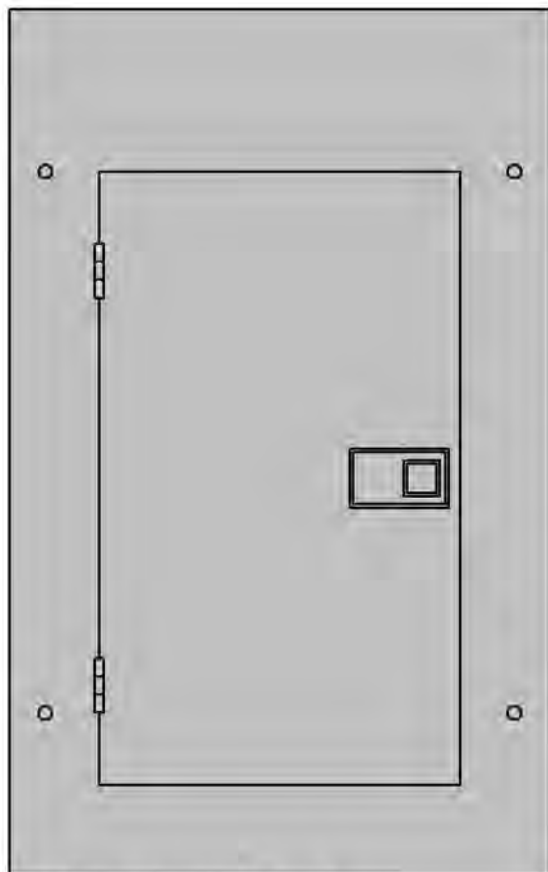
**ALWAYS FOLLOW ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL CODES.
OBSERVE APPROPRIATE SAFETY AND LOCKOUT / TAGOUT PROCEDURES**

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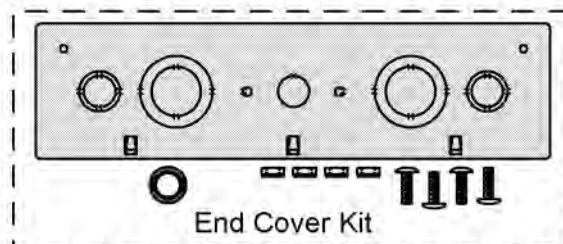
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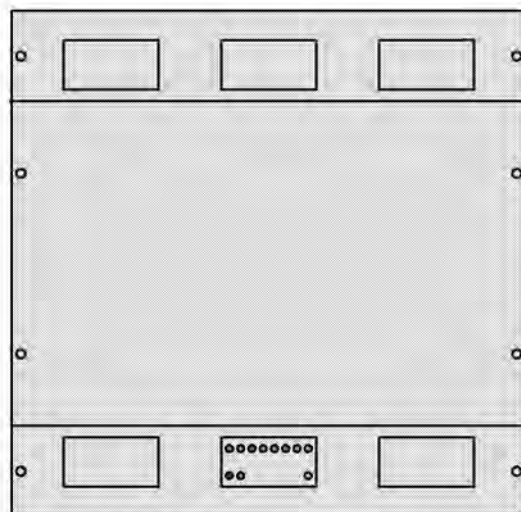


Loadcenter (one of four)

100A 1 phase
200A 1 phase
125A 3 phase
225A 3 phase

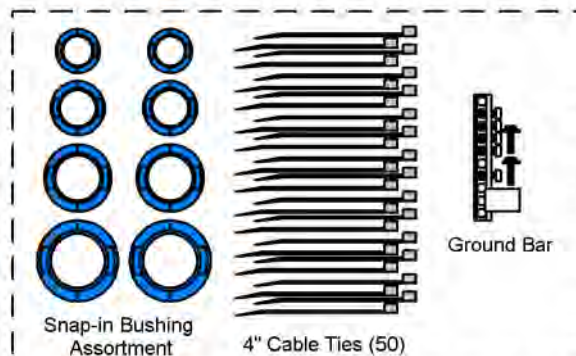


End Cover Kit

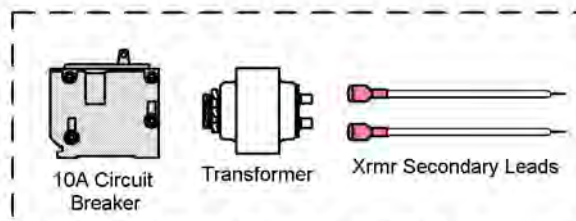


ACSC248-ASM Control Unit

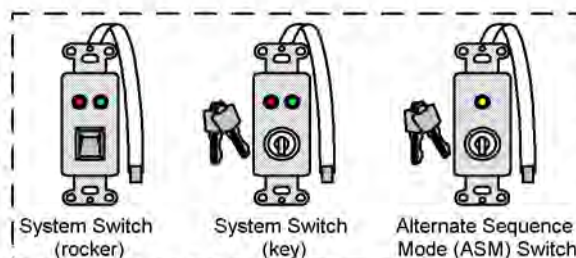
ALL PARTS ABOVE INCLUDED WITH MODELS:
ACL-100-SQ (100A 1 ph)
ACL-200-SQ (200A 1 ph)
ACL-125-SQ3P (125A 3 ph)
ACL-225-SQ3P (225A 3 ph)



Accessory Kit



Transformer Kit

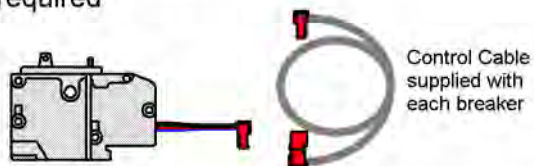


Switch Kit

REMOTE CONTROLLED CIRCUIT BREAKERS

Order separately quantities required

ACRB-20-1 (20A 1 pole)
ACRB-20-2 (20A 2 pole)
ACRB-30-1 (30A 1 pole)
ACRB-30-2 (30A 2 pole)



Control Cable
supplied with
each breaker

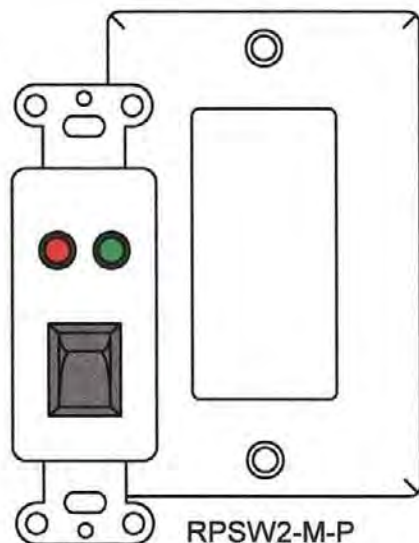
REGULAR CIRCUIT BREAKERS (non-controlled)

Order separately quantities required

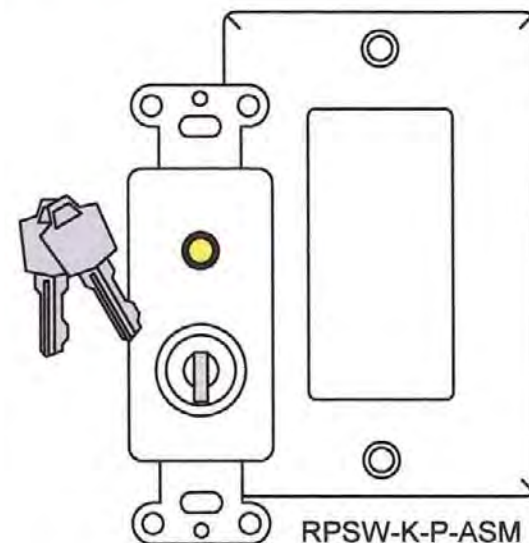
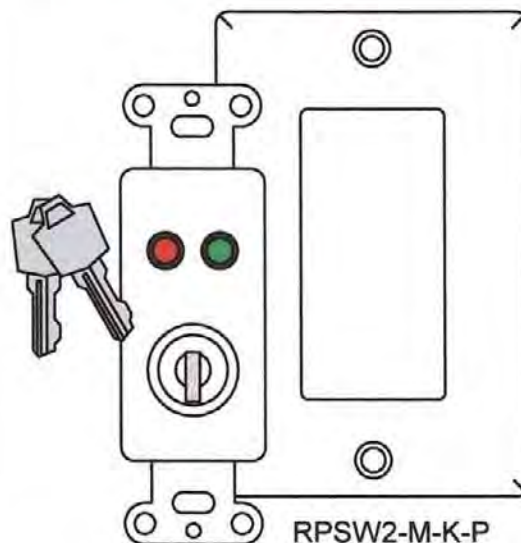
ACB-20-1 (20A 1 pole)
Also available from local
electrical distributor



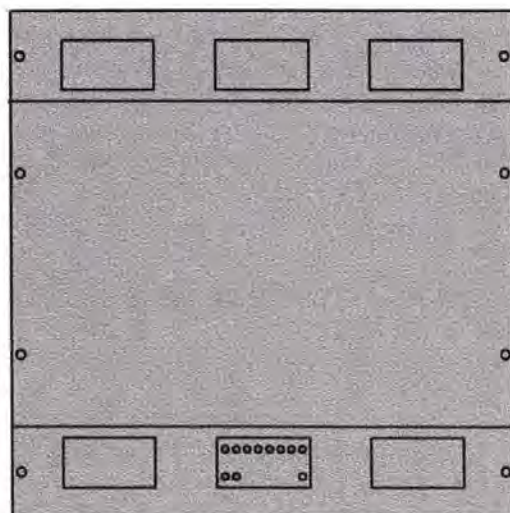
Optional Accessories (order separately)



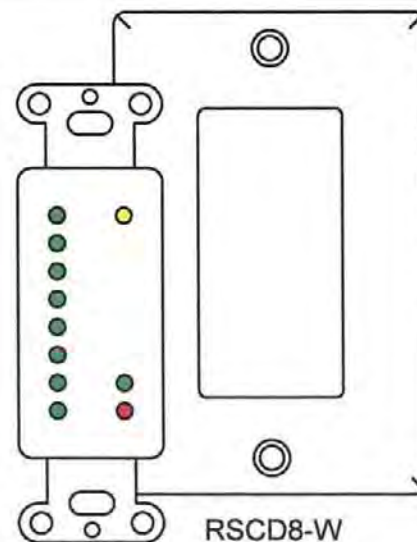
System Switches: Identical to switches provided with unit except white (wallplate included) and w/o flex cable. May be utilized in remote locations, connect per hook-up diagram.



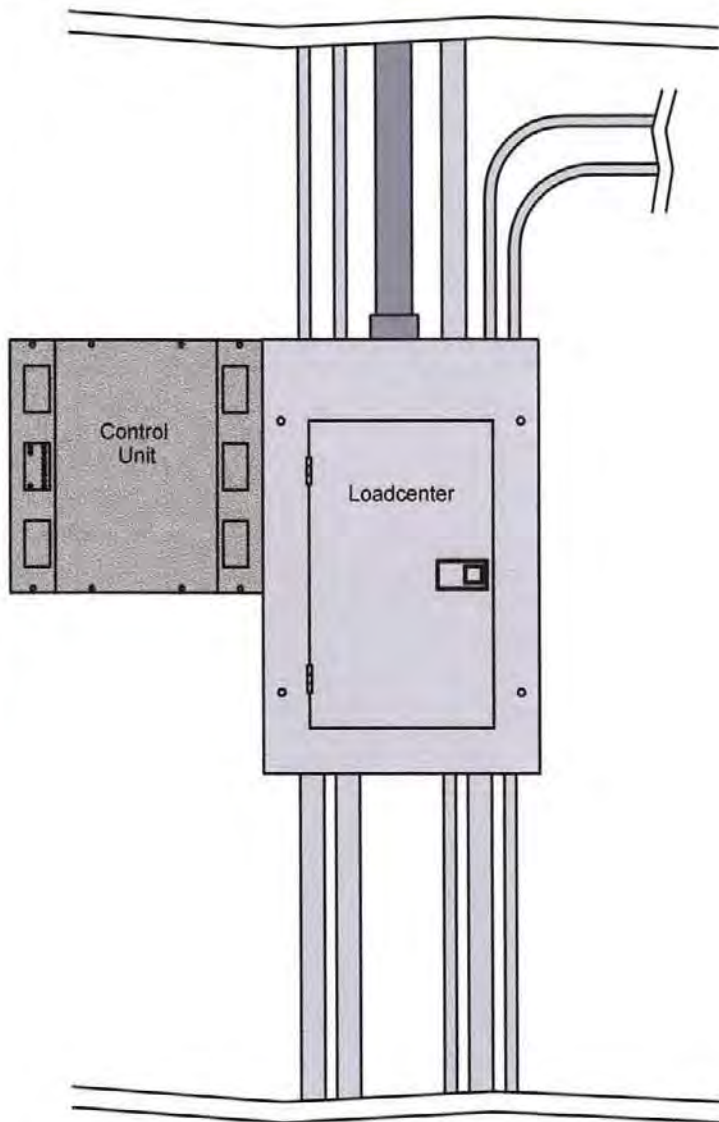
Alternate Sequence Mode (ASM) activation switch. Identical to ASM switch provided except white (wallplate included) and w/o flex cable. May be utilized in remote location **INSTEAD** of ASM switch provided with unit.



ACSC248-ASM Control Unit
Additional control units may be added to create two or more independent systems originating from same loadcenter.



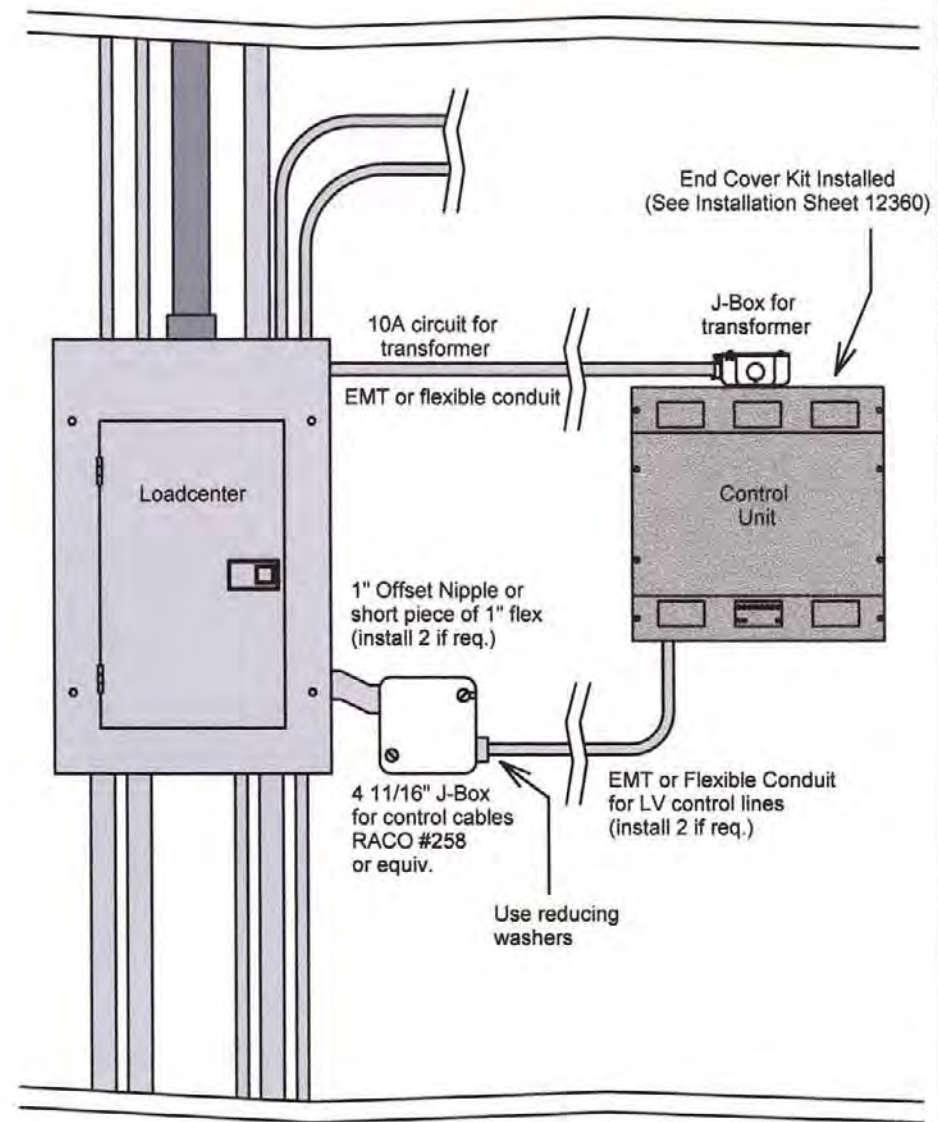
Remote display allows for system status indication at remote location. Identical to display on control unit except white (wallplate included) and w/o flex cable. Note: Requires 12 conductor cable from control unit.



Example 1

Control Unit may be installed at upper or lower left, upper or lower right, top or bottom positions (upper left shown).

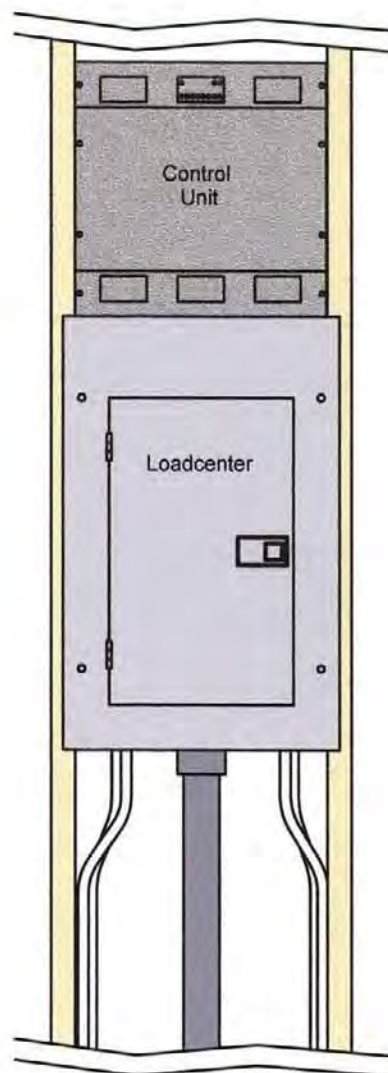
Surface Mount Installation Examples



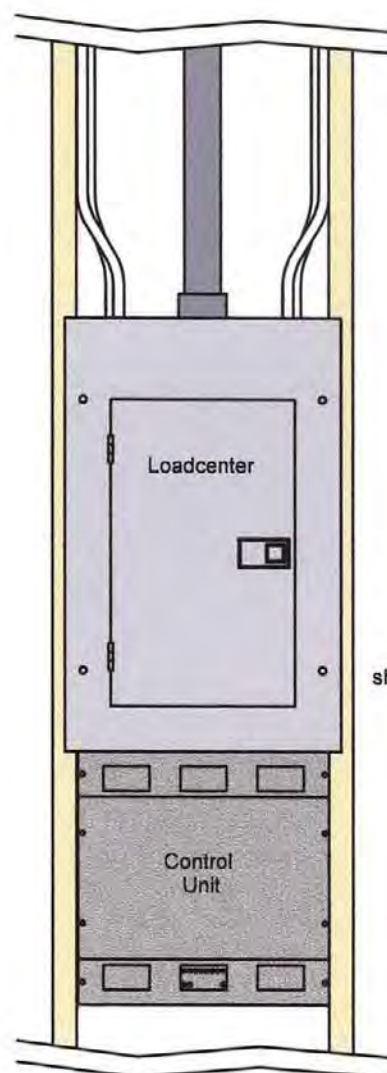
Example 2

Control Unit Installed In "Remote" Location

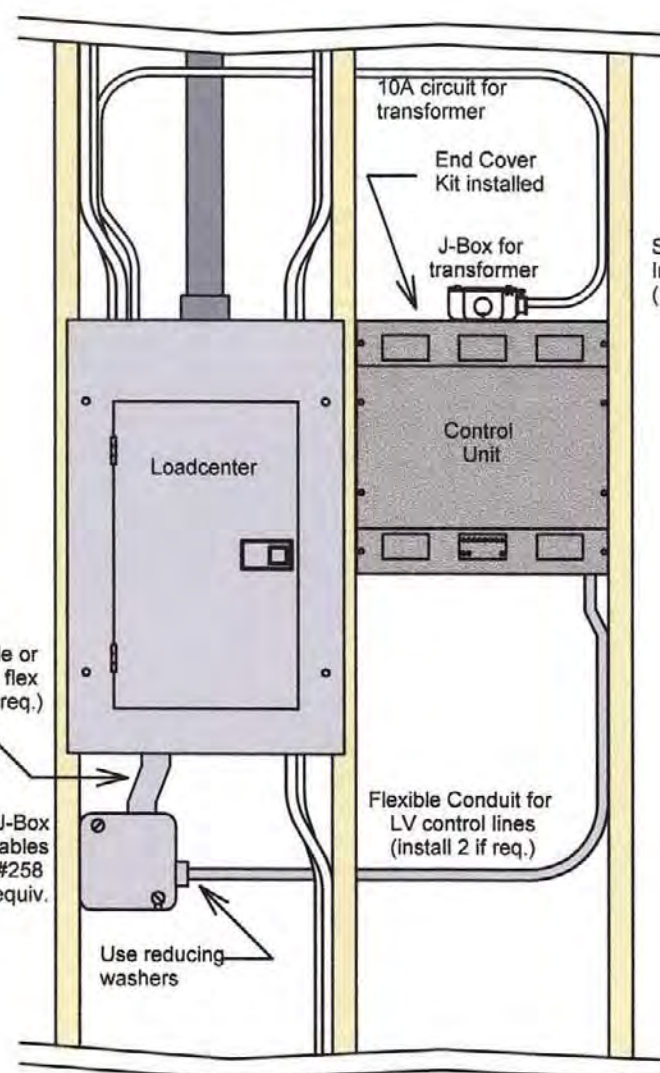
Note: Control cables supplied with circuit breakers will need to be extended with generic multi-conductor cable installed between J-box and Control Unit. (min. 22ga, 1000 ft max.)
 1) Cut off female end (smaller connector) approx. 6" from connector. Splice onto new cable inside Control Unit and plug onto appropriate header.
 2) Install cable with male connector between loadcenter and J-box, plug connector onto appropriate breaker. Splice onto multi-conductor cable inside J-box.



Example 1
Control Unit Installed
Above Loadcenter



Example 2
Control Unit Installed
Below Loadcenter



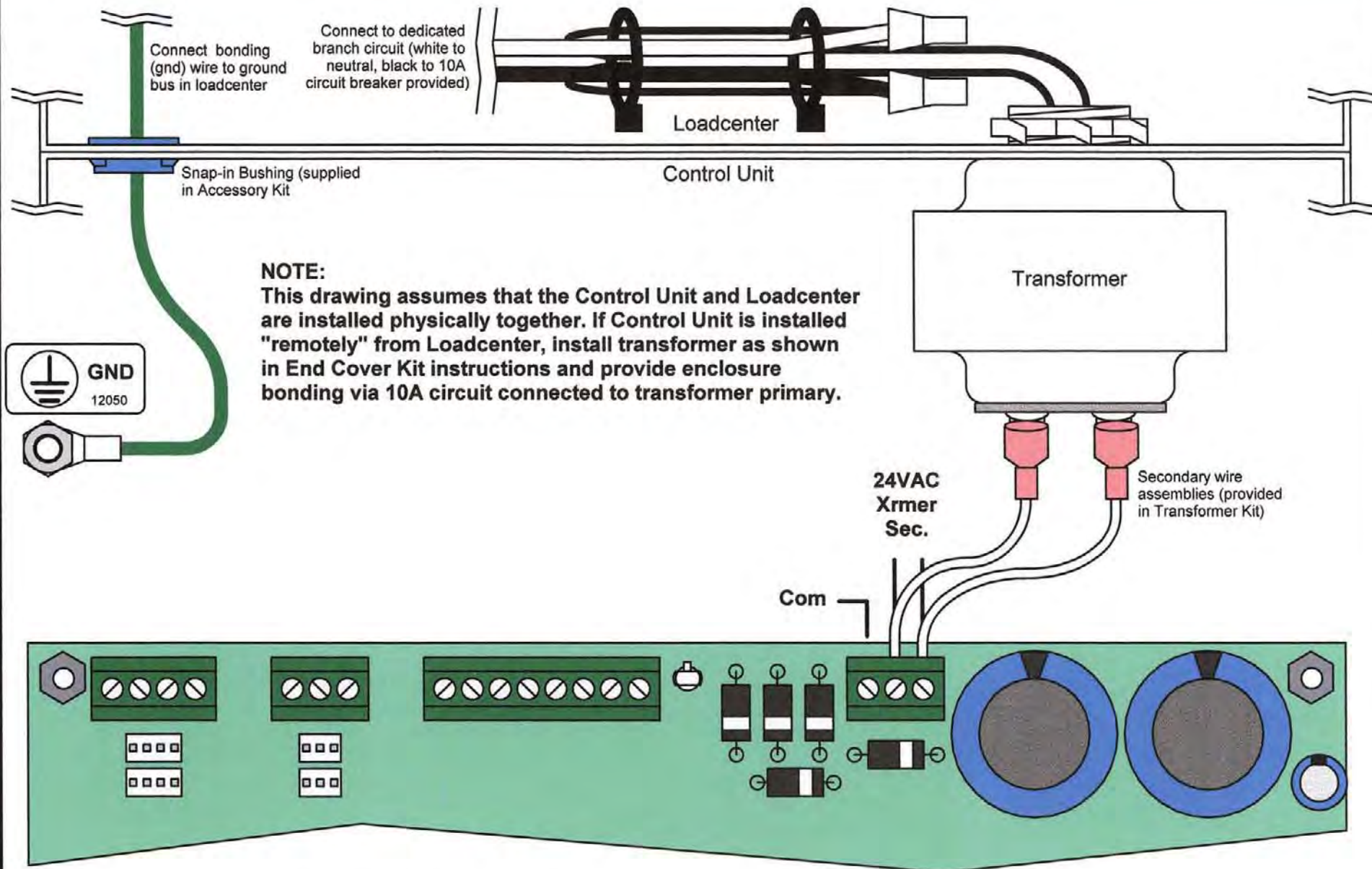
Example 3
Control Unit Installed In "Remote"
Location From Loadcenter

See End Cover Kit
Installation Sheet
(12360)

Between Stud Installation Examples (16" stud spacing)

Note: Control cables supplied with circuit breakers will need to be extended with generic multi-conductor cable installed between J-box and Control Unit. (min. 22ga, 1000 ft max.)

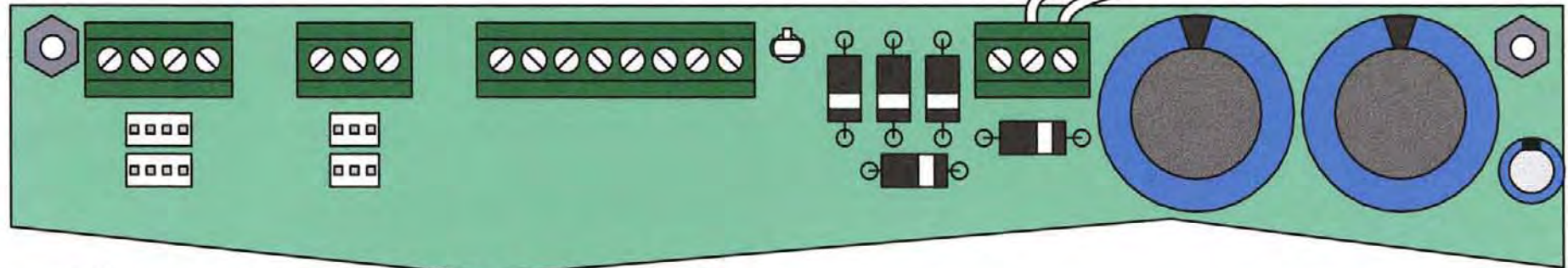
- 1) Cut off female end (smaller connector) approx. 6" from connector. Splice onto new cable inside Control Unit and plug onto appropriate header.
- 2) Install cable with male connector between loadcenter and J-box, plug connector onto appropriate breaker. Splice onto multi-conductor cable inside J-box.



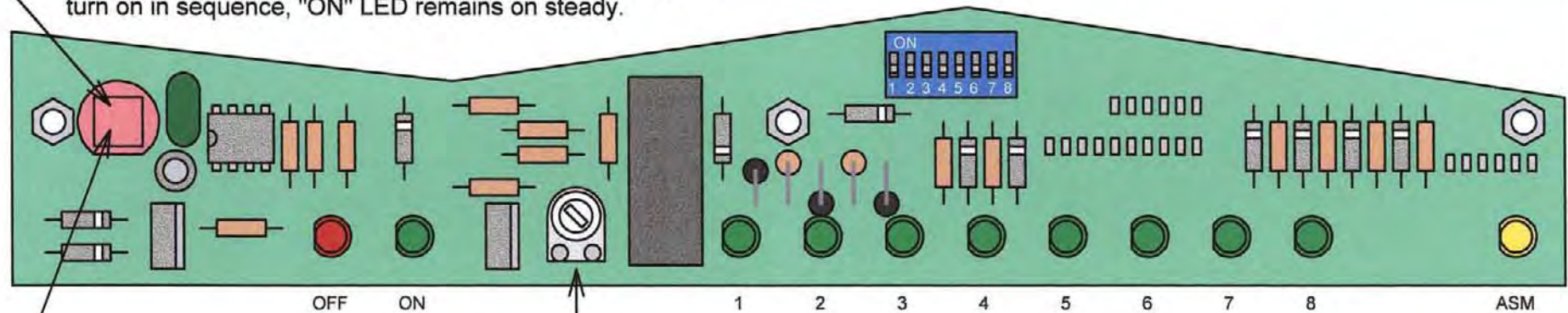
Transformer Connection

1) Apply power to transformer

Transformer



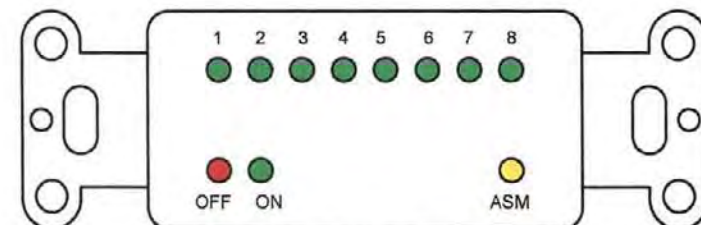
2) Press red test button. Green "ON" LED flashes, steps 1-8 turn on in sequence, "ON" LED remains on steady.



3) Press red test button again. Red "OFF" LED flashes, steps 1-8 turn off in sequence, "OFF" LED remains on steady.

Sequence Rate Adjust
(CW-fast, CCW slow)

Preliminary System Test



Front cover display duplicates indicators on control board

ACRB series circuit breaker

Note on remotely operated circuit breakers:
The green indicator can be used to manually energize its respective circuit by pushing it in the direction away from the breaker handle. However, if this is done, the circuit can then only be de-energized by turning the breaker handle to "off". It will be necessary to cycle the entire system up and then down to reset the breaker remote control function. Therefore, manual switching of circuits in this manner is not recommended except in emergency situations.

TIP: Cables may be identified by marking with a fine point "Sharpie" or by labels attached to rear connector cover.

Control Cable
(supplied with
circuit breaker)

NOTE:

This drawing assumes that the Control Unit and Loadcenter are installed physically together. If Control Unit is installed "remotely" from Loadcenter, refer to control cable connection instructions on "Surface Mount Installation Examples" and "Between Stud Installation Examples".

Loadcenter

Control Unit

Snap-in Knock-out Bushings
(supplied in Accessory Kit)

NOTE:
Use D-clamps to neatly
dress excess cable length

TIP: Cables may be identified by marking with a fine point "Sharpie" or by labels attached to rear connector cover.

**Circuit Breaker Control
Cable Connection**

Step 1

Step 2

Step 3

Step 4

**Control Cables From Circuit Breakers
(max 3 per step)**

REMOTE SWITCH
model #s:
(order separately)
RPSW2-M-P
RPSW2-M-K-P

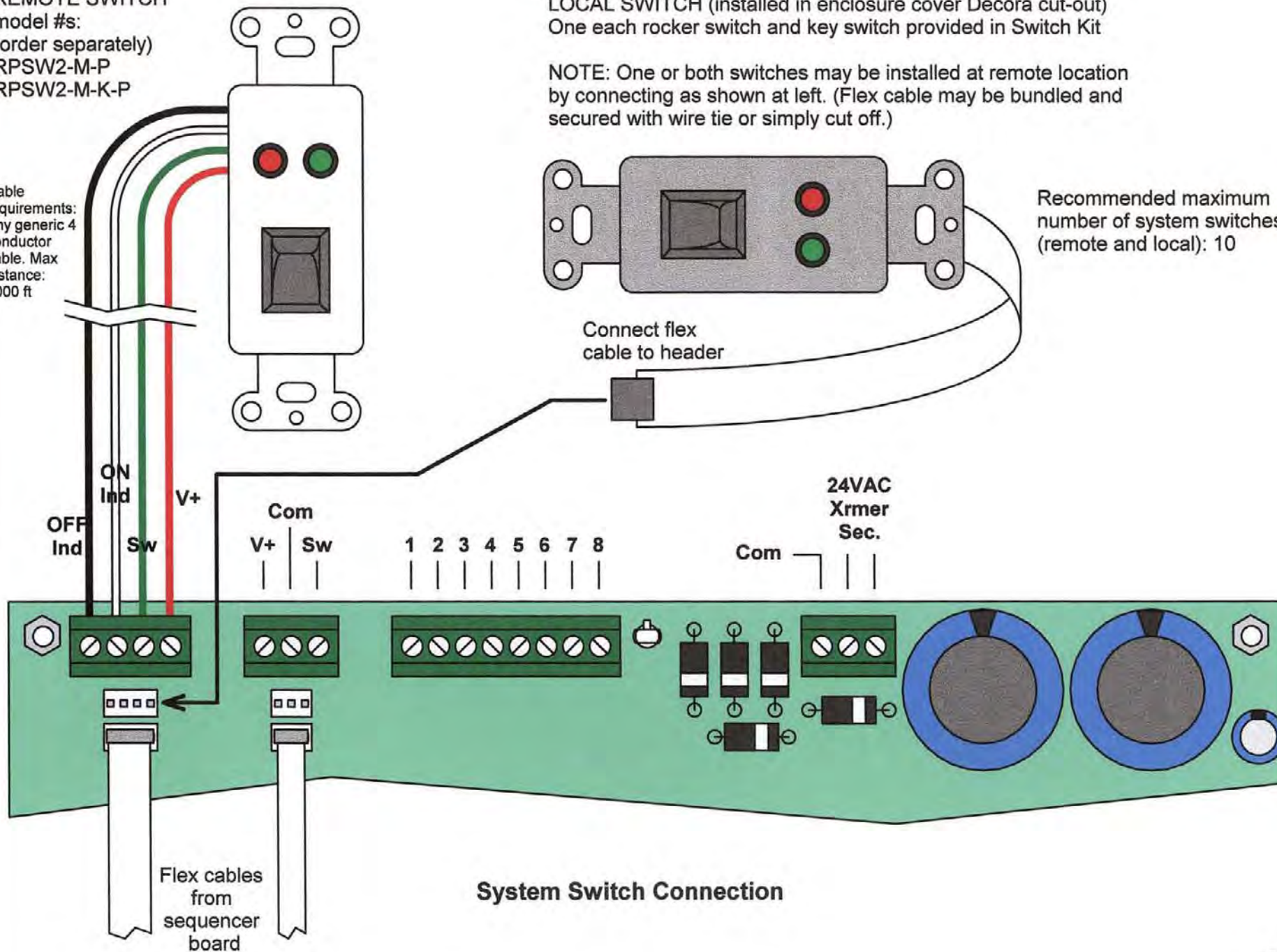
LOCAL SWITCH (installed in enclosure cover Decora cut-out)
One each rocker switch and key switch provided in Switch Kit

NOTE: One or both switches may be installed at remote location
by connecting as shown at left. (Flex cable may be bundled and
secured with wire tie or simply cut off.)

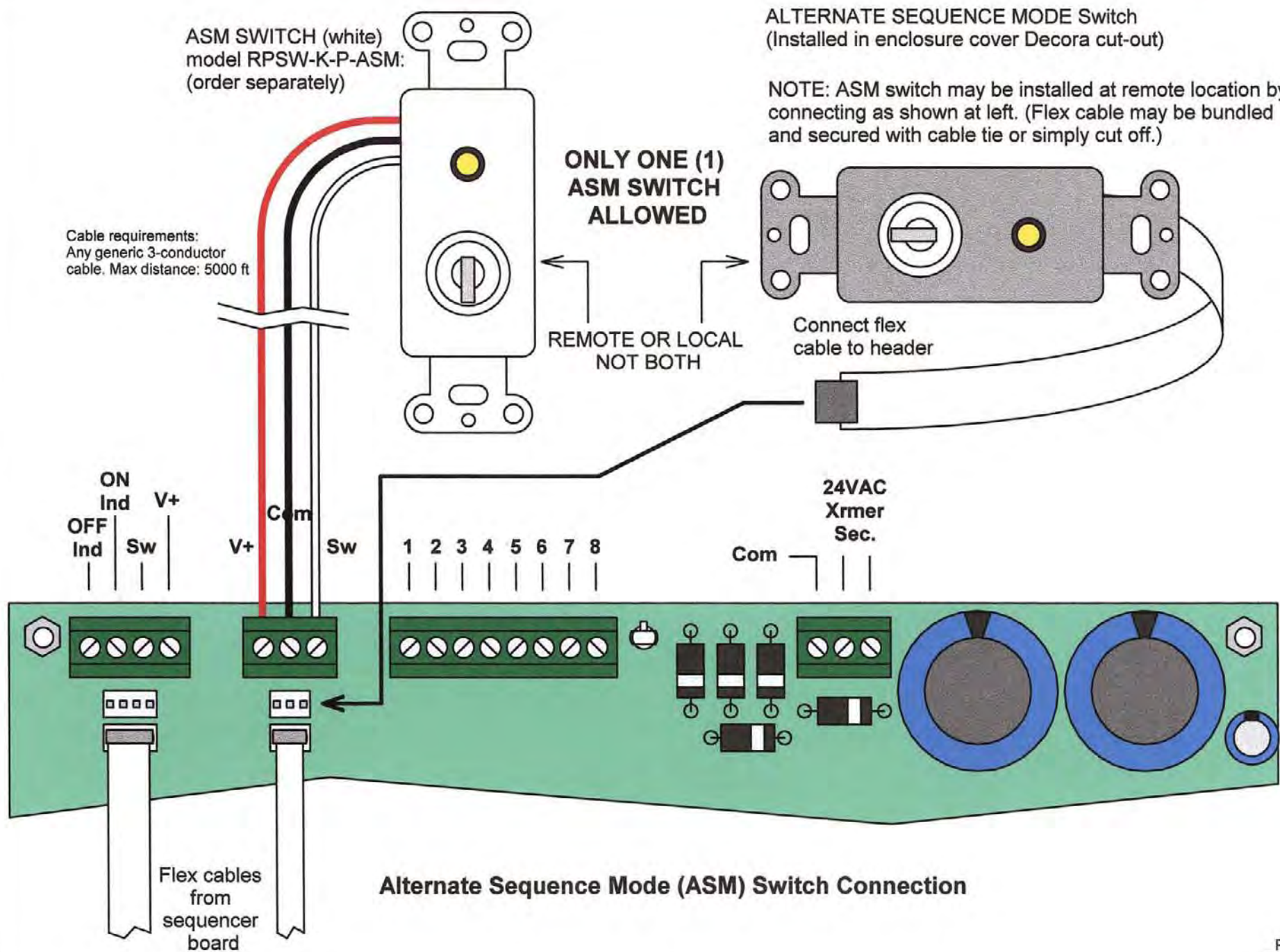
Cable
requirements:
Any generic 4
conductor cable. Max
distance:
5000 ft

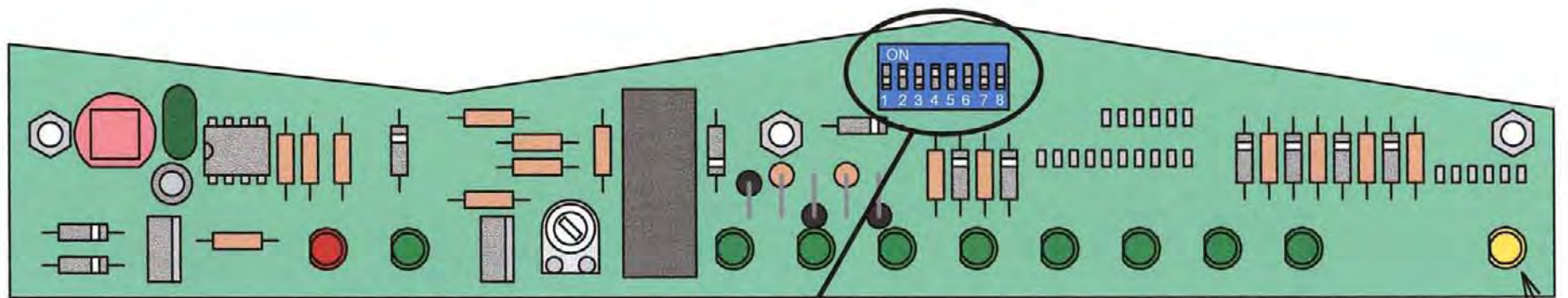
Recommended maximum
number of system switches
(remote and local): 10

Connect flex
cable to header

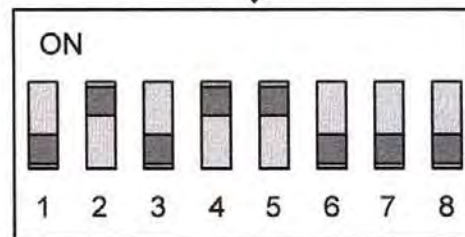


System Switch Connection



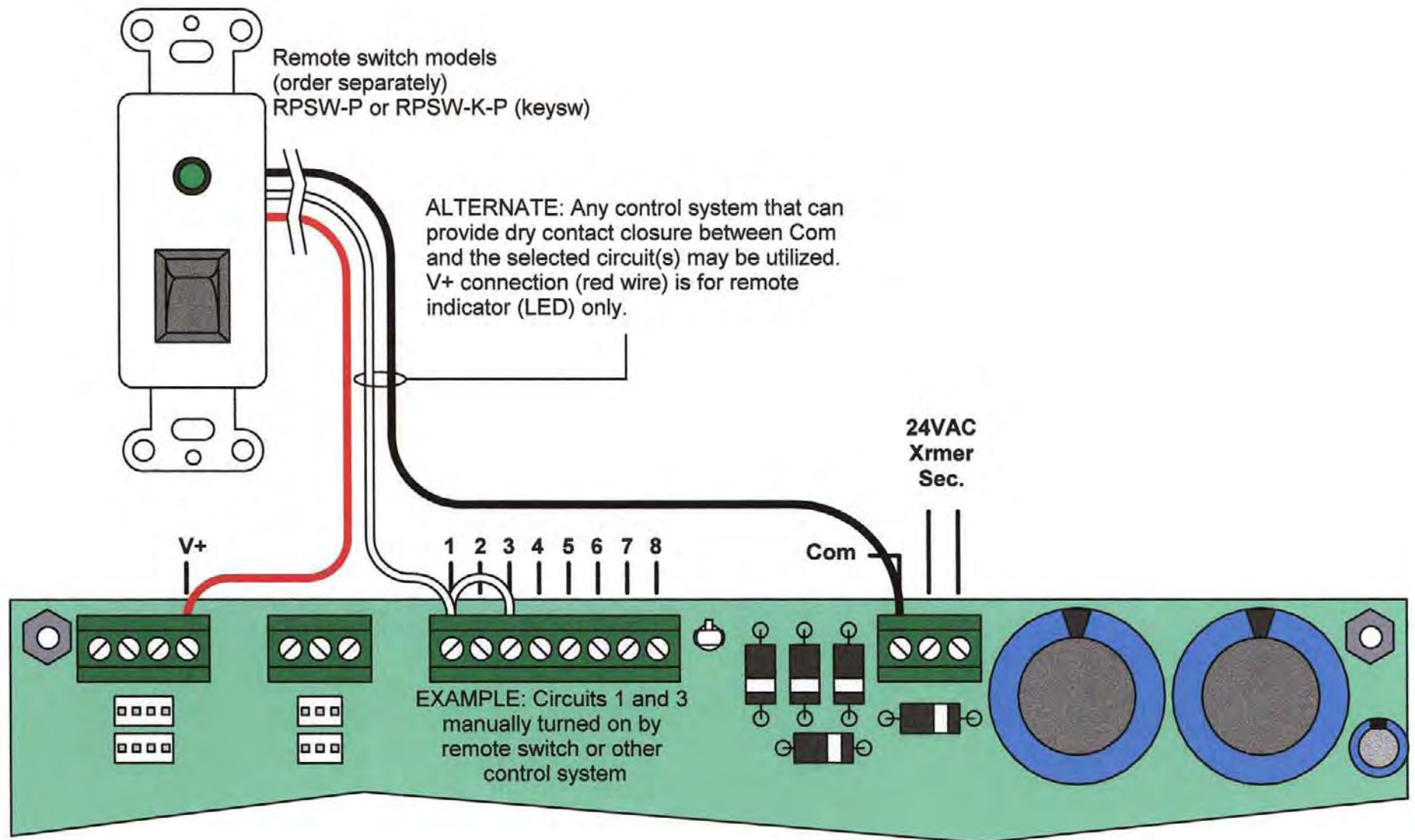


When Alternate Sequence Mode (ASM) is activated, yellow LED will be ON.



Select step(s) to be bypassed by setting corresponding DIP switch position to ON.
When remote ASM switch is closed selected circuits will NOT turn on.
(In example shown, steps 2, 4, and 5 will be bypassed.)

Alternate Sequence Mode (ASM) Programing



Independent Circuit Control Switch Connection

ALARM SYSTEM INTERFACE:

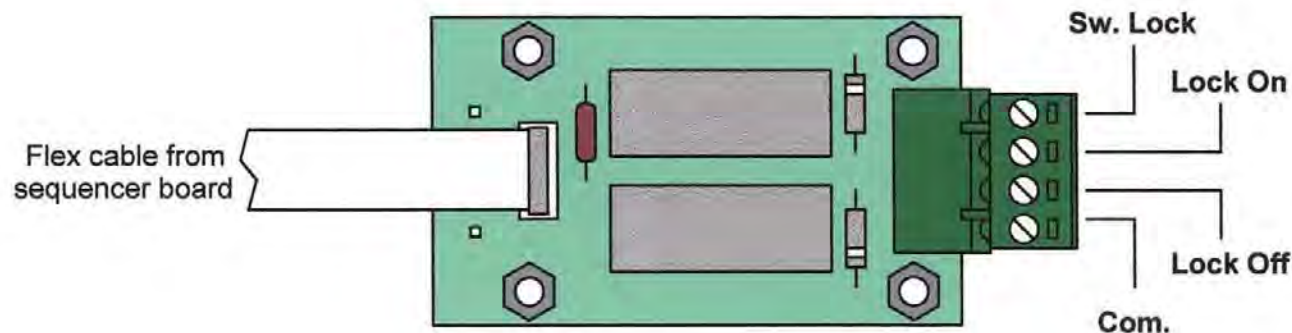
If required by local building code, faculty usage, or Fire Marshal, the system switches can be overridden and the system controlled by contact closures provided by the fire alarm panel or other similarly installed device. A maintained contact between the "com" terminal and any of the terminals shown below will provide the following functions.

Lock Off: A maintained contact between the "com" terminal and the "lock off" terminal will turn the system off and keep it off regardless of any other switch activations. If the system is already off, it will be kept off. Note: Independent Circuit Control Switches (if any) will still be active.

Lock On: A maintained contact between the "com" terminal and the "lock on" terminal will turn the system on and keep it on regardless of any other switch activations. If the system is already on, it will be kept on.

Switch Lock: A maintained contact between the "com" terminal and the "switch lock" terminal will lock the system in its current state, either on or off, regardless of any other switch activations.

Caution: Do not allow alarm system to make more than one of the above described contacts at the same time. Sequencer board damage may result.



TIP: The "lock on" interface scheme can be used in place of the standard remote switches when only one set of external switches or one external control system is used to activate the sequencer.

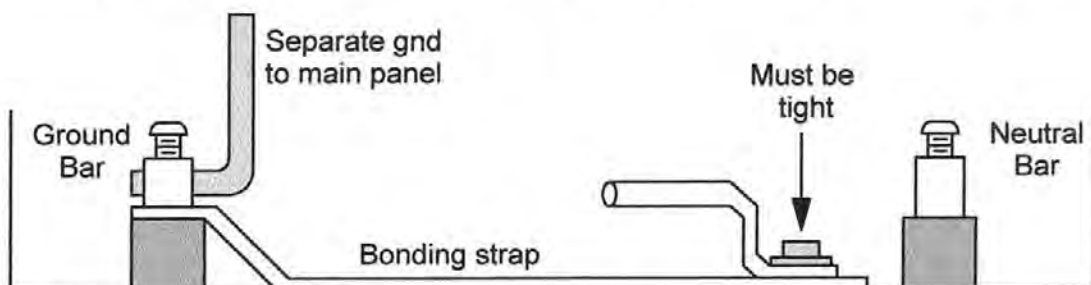
Alarm Interface / Master Control Connections

Notes on Grounding and Bonding for Cutler Hammer BR series Single Phase Loadcenters

If this loadcenter is to be the MAIN PANEL, located at the service entrance, the bonding jumper between the Neutral bar and the Ground bar should be left in place, so that the neutral and ground are bonded at the same potential.



If this loadcenter is to be a SUB PANEL, fed from another main panel, the neutral to ground bonding jumper should be disconnected from the neutral bar. The green bonding screw **MUST** be tightened to maintain ground bar to box bonding. A separate ground conductor **MUST** be provided back to the main panel.

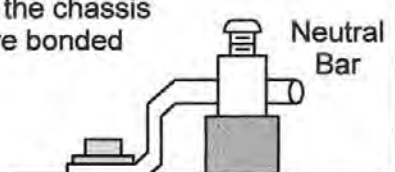


If an ISOLATED GROUND system is required, the bonding jumper, bonding screw, and bonding strap can be removed so that the ground bar and neutral bar are isolated from the box. However, the small ground bar kit (provided) **MUST** be installed and a separate bonding conductor **MUST** be installed to assure that the loadcenter box is bonded to ground at the main panel.



Notes on Grounding and Bonding for Cutler Hammer BR series Three Phase Loadcenters

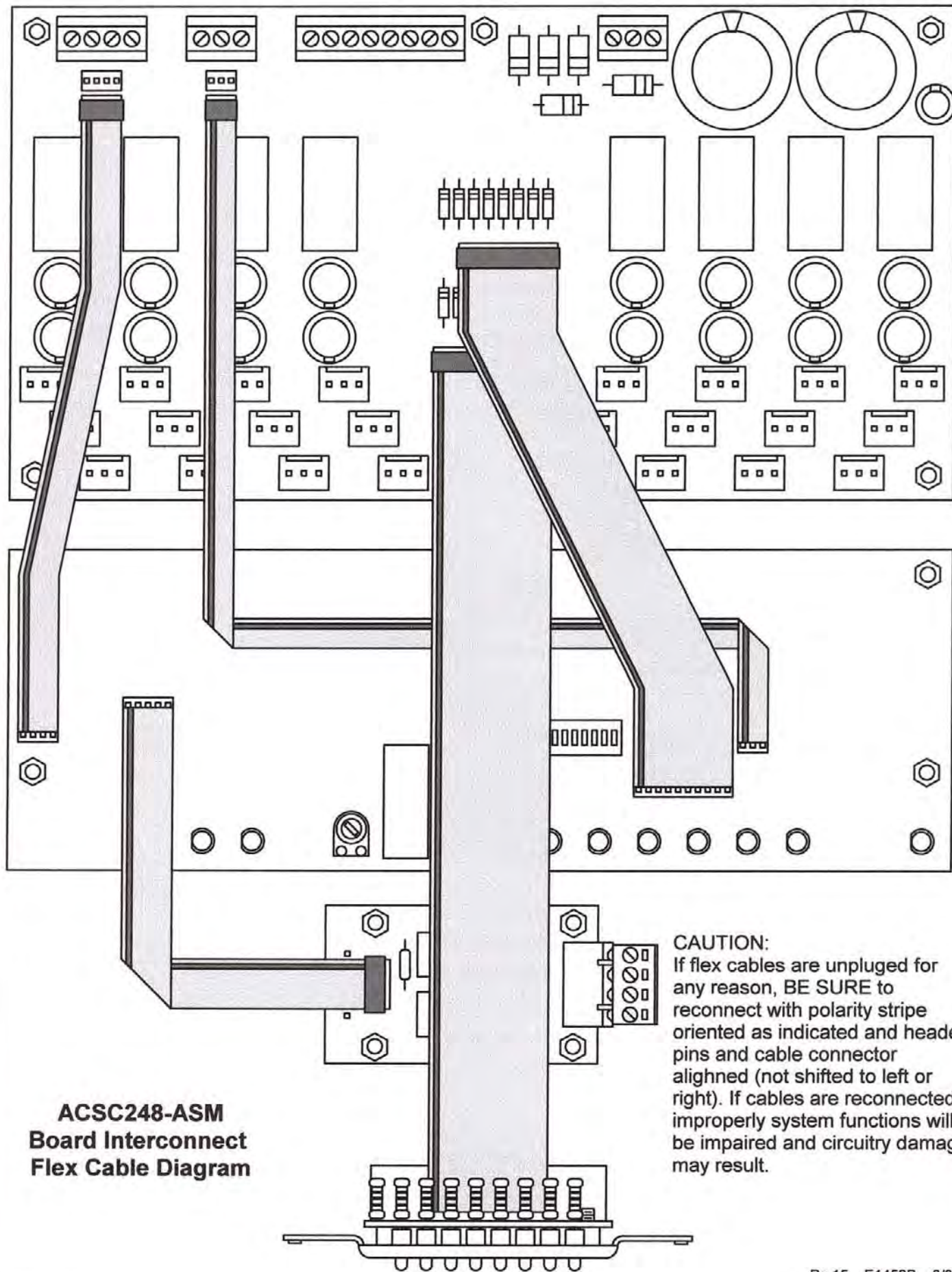
If this loadcenter is to be the MAIN PANEL, the bonding jumper between the chassis and the Neutral bar should be installed, so that the neutral and ground are bonded at the same potential.



If this loadcenter is to be a SUB PANEL, the bonding jumper should be left disconnected or removed, the ground bar kit should be installed and a grounding conductor provided back to the main panel. If the ground bar kit provided is not adequate, obtain a larger GBK series ground bar kit from a local Cutler Hammer distributor.



**THIS INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL ELECTRIC CODE REQUIREMENTS AS WELL AS ALL LOCAL BUILDING CODES.
IF QUESTIONS ARISE, CONSULT WITH THE LOCAL BUILDING INSPECTOR OR THE APPROPRIATE A.H.J. (AUTHORITY HAVING JURISDICTION).**

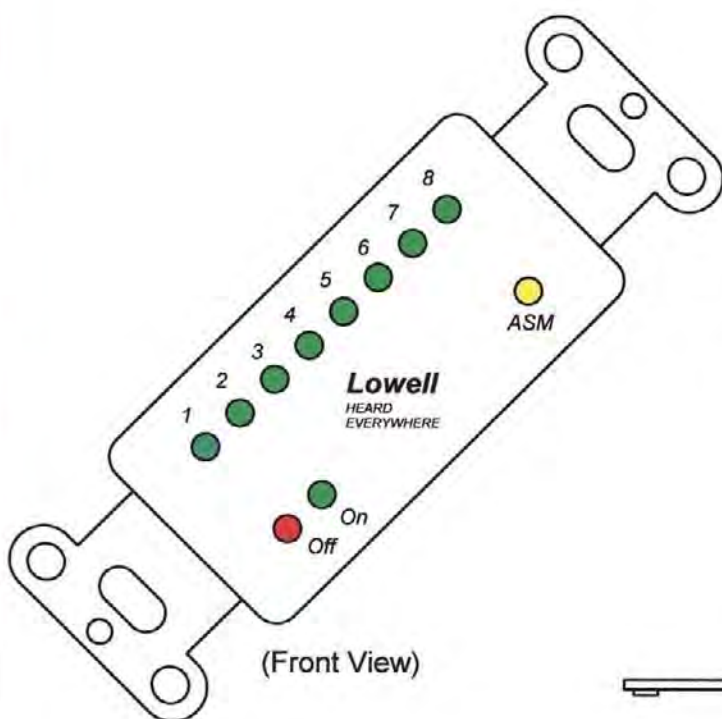


**ACSC248-ASM
Board Interconnect
Flex Cable Diagram**

CAUTION:
If flex cables are unplugged for any reason, BE SURE to reconnect with polarity stripe oriented as indicated and header pins and cable connector aligned (not shifted to left or right). If cables are reconnected improperly system functions will be impaired and circuitry damage may result.

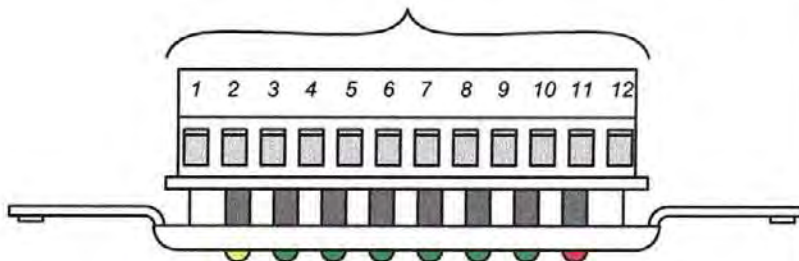
Remote Sequential Controller Display, 8-step Model RSCD8-W

Provides visual indication of sequential loadcenter operation and status.
Green LEDs (1 through 8) show progress of sequencer cycle up or down.
Green "ON" LED flashing: Up cycle in progress
Green "ON" LED steady on: Up cycle complete, system ready for use.
Red "OFF" LED flashing: Down cycle in progress
Red "OFF" LED steady on: Down cycle complete, system shut down
Yellow "ASM" LED on: Alternate Sequence Mode enabled, selected steps
programed at controller to be skipped. (See ACSC248-ASM installation instructions)



(Front View)

Connect IN EXACT ORDER to corresponding terminal block on RSCD8 unit located in ACSC248 control enclosure.
(Numbers shown for reference only)
Cable requirements: 12 conductors, 28 ga min.
Max. distance w/ 28 ga wire: 5000 ft.
Max. distance w/ 22 ga wire: 15,000 ft.



(Side View)

Note: Black Decora sub-plate included. To change plate, remove two nuts, circuit board assembly, spacers, and washers and reassemble onto other plate.
(Black plate typically utilized with Lowell Decora style rack panels; LD3-RMP, LD4-RMP, LD8-RMP, LD9-RMP)

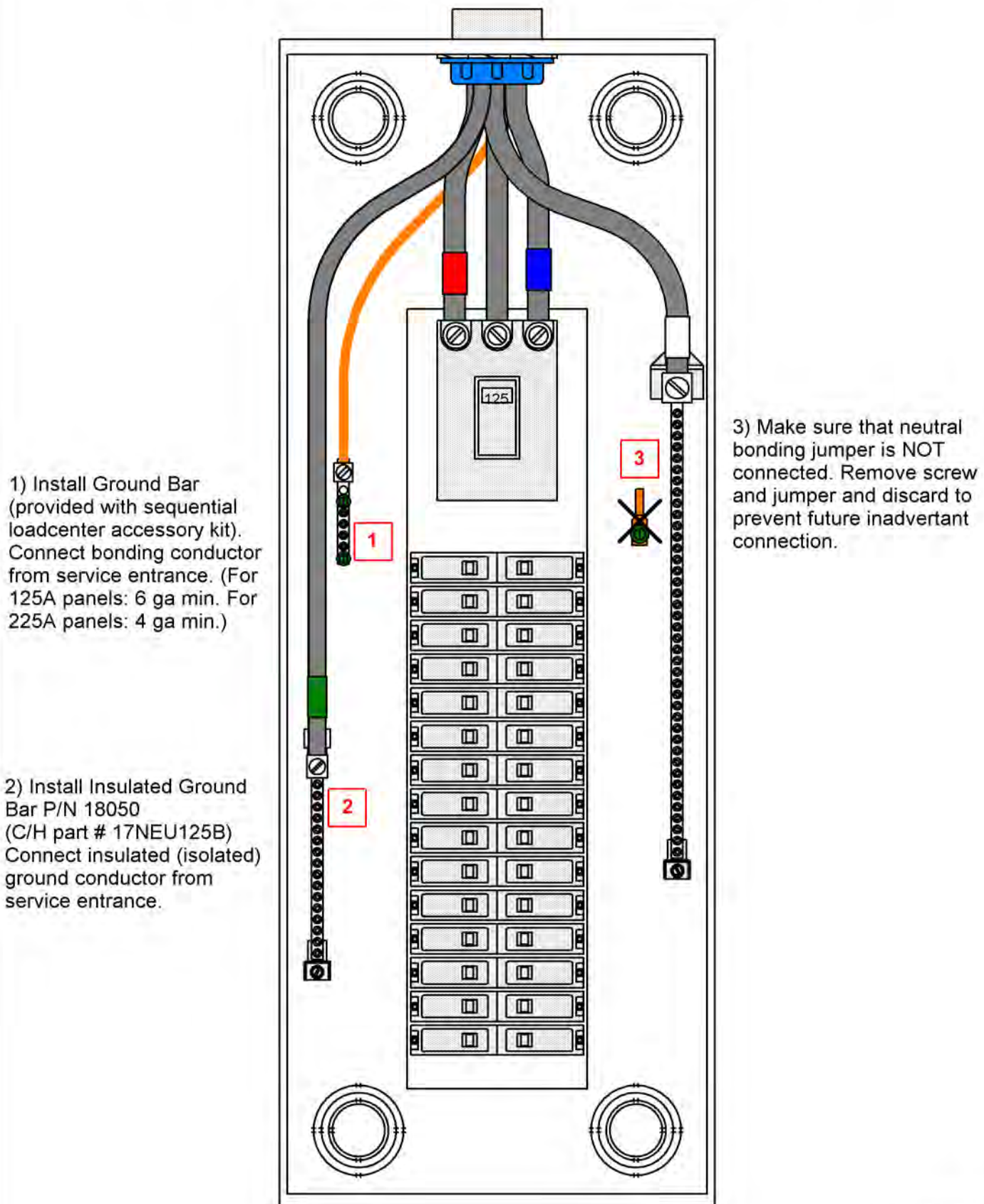
P/N 14968 E1426 7/07

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Insulated Ground Configuration for Cutler / Hammer BR Series 3-phase Loadcenters when used as a subpanel

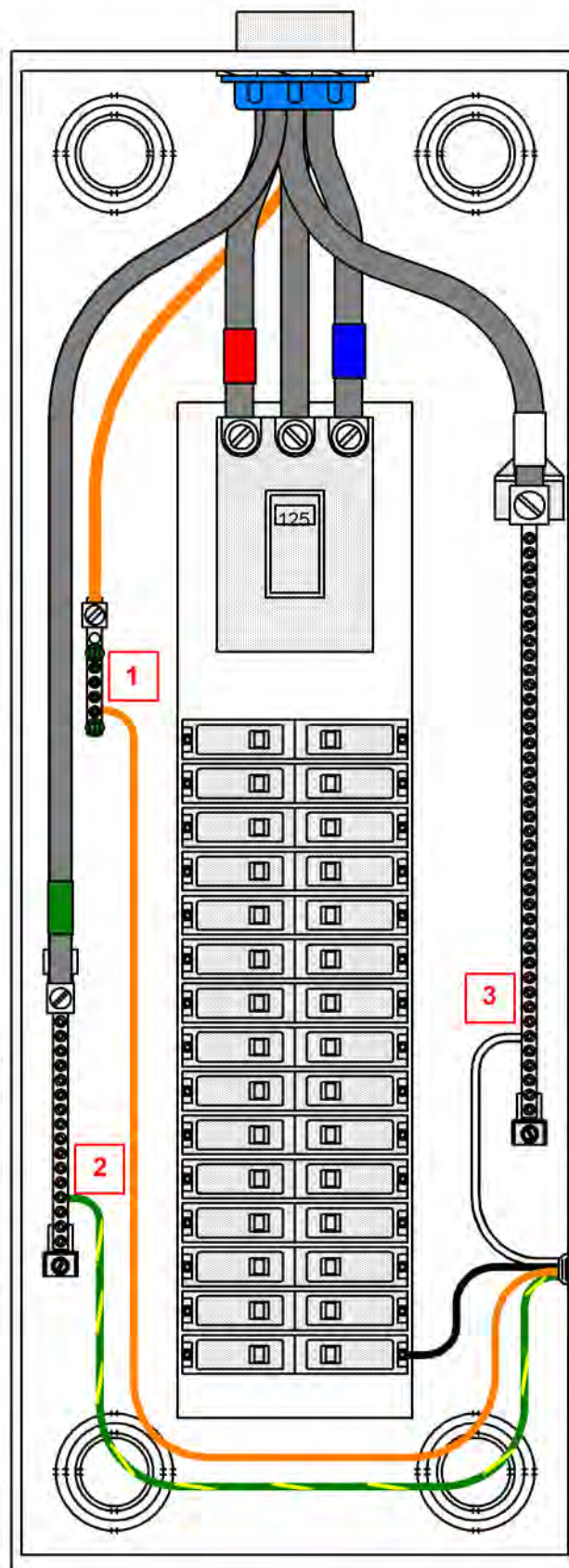


Insulated Ground Branch Circuit Wiring for Cutler / Hammer BR Series 3-phase Loadcenters when used as a subpanel

1) Bonding conductor from branch circuit connects to ground bar. Wire can be bare or green insulated. More than one wire under each screw and/or pigtail of wires is allowed.

2) Isolated ground conductor from branch circuit connects to isolated (non-bonded) ground bar. Traditional color of isolated ground wire is green with yellow stripe. More than one wire under each screw and/or pigtail of wires is allowed.

3) Neutral conductor from branch circuit connects to non-bonded Neutral Bar. Wire color MUST be white. Per NEC 408.41 only ONE wire per screw terminal is allowed.



Ratings

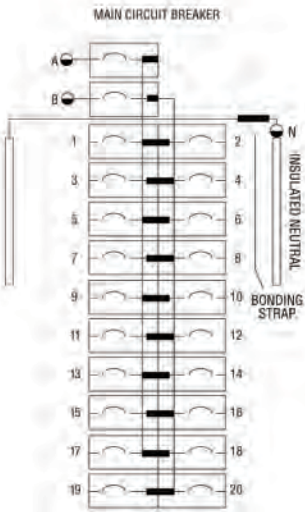
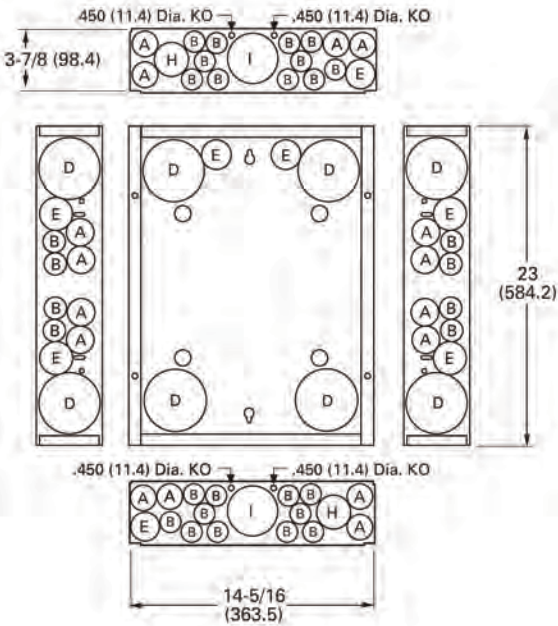
- Main Circuit Breaker — BR
- 100 Amperes, 1-Phase, 3-Wire, 120/240V AC
- Tin-Plated Aluminum Bus Bar
- Interrupting Rating 10 kAIC
- Split: 20/20
- Split Neutral
- Enclosure Type: Indoor
- Trim Type: Combination
- Paint Type: ANSI 61 Light Gray Finish
- Incoming Wire Range: #4 – 1/0, Cu/Al 60 or 75°C

Notes

1. All main circuit breaker loadcenters are listed for use as service entrance equipment and are shipped with a neutral bonding strap preattached. The maximum rating of the panel is the main circuit breaker rating when used as service entrance equipment.
2. Ground bar kits priced separately.
3. Combination style covers may be used in surface or flush applications.

Knockouts

Code	Diameter in Inches						Diameter in mm				
	1/2	3/4	—	—	—	—	12.7	19	—	—	—
A	1/2	3/4	—	—	—	—	12.7	19	—	—	—
B	1/2	—	—	—	—	—	12.7	—	—	—	—
C	1/2	1-1/4	1-1/2	2	2-1/2	—	12.7	31.7	38.1	50.8	63.5
D	1-1/4	1-1/2	2	2-1/2	—	—	31.7	38.1	50.8	63.5	—
E	1/2	3/4	1	—	—	—	12.7	19.0	25.4	—	—
F	1/2	3/4	1	1-1/2	2	—	12.7	19.0	25.4	38.1	50.8
G	1-1/4	1-1/2	2	—	—	—	31.7	38.1	50.8	—	—
H	1/2	3/4	1	1-1/4	1-1/2	—	12.7	19.0	25.4	31.7	38.1
I	1	1-1/4	1-1/2	2	2-1/2	—	25.4	31.7	38.1	50.8	63.5
J	1	1-1/4	1-1/2	—	—	—	25.4	31.7	38.1	—	—



Reference DWG # 96-4891

Used on Lowell Model No. ACLC-100-20-SC248ASM

Dimensions in Inches (mm)

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.	PREPARED BY		DATE	Cutler-Hammer			PITTSBURGH, PA	
	APPROVED BY		DATE					
	VERSION			TYPE		DRAWING TYPE		
			BR2020B100					
NEG-ALT NUMBER	REVISION	DWG SIZE		G.O.		ITEM		SHEET

Ratings

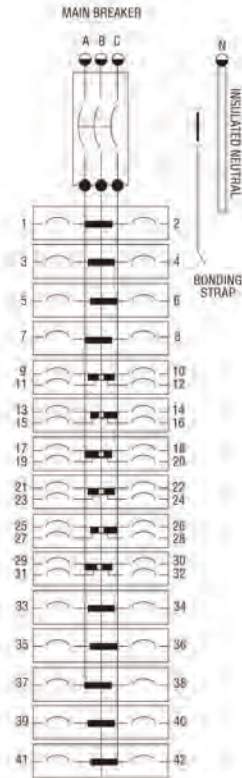
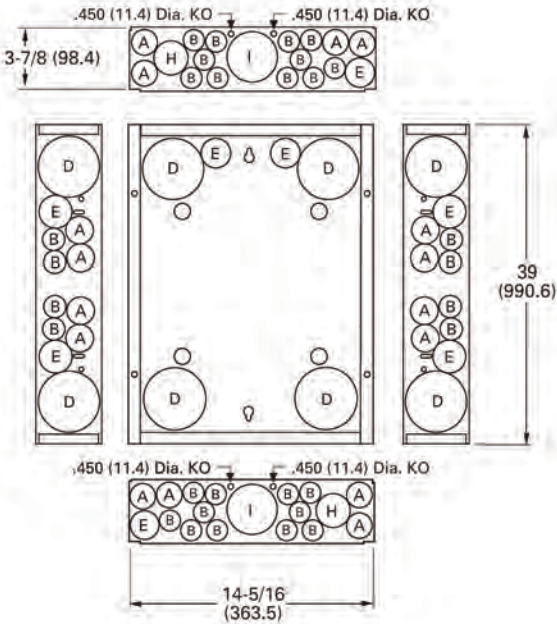
- Main Circuit Breaker — CC
- 125 Amperes, 3-Phase, 4-Wire, 120/208V AC or 240V AC
- Tin-Plated Aluminum Bus Bar
- Interrupting Rating 10 kAIC
- Spaces/Poles: 30/42
- Insulated/Bondable Neutral
- Enclosure Type: Indoor
- Trim Type: Combination
- Paint Type: ANSI 61 Light Gray Finish
- Incoming Wire Range: #1 – 2/0, Cu/Al 60 or 75°C

Notes

1. All main circuit breaker loadcenters are listed for use as service entrance equipment and are shipped with a neutral bonding strap pre-attached (commercial loadcenters do not have a pre-attached bonding strap). The maximum main rating of the panel is the main circuit breaker rating when used as service entrance equipment.
2. Ground bar kits priced separately.

Knockouts

Code	Diameter in Inches						Diameter in mm					
	1/2	3/4	—	—	—	—	12.7	19	—	—	—	—
A	1/2	—	—	—	—	—	12.7	—	—	—	—	—
B	1/2	—	—	—	—	—	12.7	—	—	—	—	—
C	1/2	1-1/4	1-1/2	2	2-1/2	—	12.7	31.7	38.1	50.8	63.5	—
D	1-1/4	1-1/2	2	2-1/2	—	—	31.7	38.1	50.8	63.5	—	—
E	1/2	3/4	1	—	—	—	12.7	19.0	25.4	—	—	—
F	1/2	3/4	1	1-1/2	2	—	12.7	19.0	25.4	38.1	50.8	—
G	1-1/4	1-1/2	2	—	—	—	31.7	38.1	50.8	—	—	—
H	1/2	3/4	1	1-1/4	1-1/2	—	12.7	19.0	25.4	31.7	38.1	—
I	1	1-1/4	1-1/2	2	2-1/2	—	25.4	31.7	38.1	50.8	63.5	—
J	1	1-1/4	1-1/2	—	—	—	25.4	31.7	38.1	—	—	—



Reference DWG # 96-4972

Used on Lowell Model No. ACLC-3P-125-30-SC248ASM

Dimensions in Inches (mm)

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.	PREPARED BY		DATE	Cutler-Hammer			PITTSBURGH, PA	
	APPROVED BY		DATE	JOB NAME DESIGNATION				
	VERSION			TYPE	3BR3042B125		DRAWING TYPE	
NEG-ALT NUMBER	REVISION	DWG SIZE		G.O.		ITEM		SHEET

Ratings

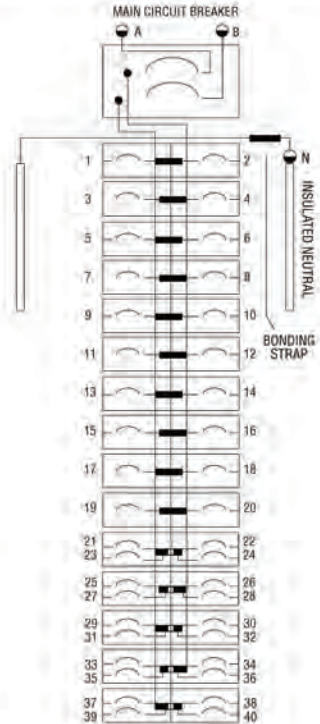
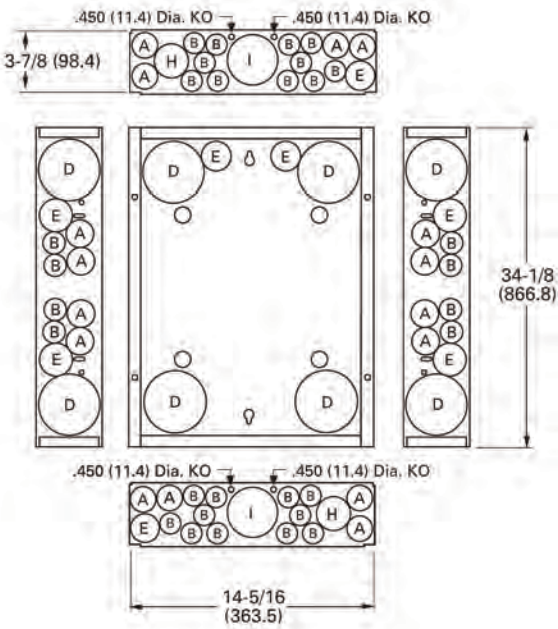
- Main Circuit Breaker — BW
- 200 Amperes, 1-Phase, 3-Wire, 120/240V AC
- Tin-Plated Aluminum Bus Bar
- Interrupting Rating 10 kAIC
- Spaces/Poles: 30/40
- Split Neutral
- Enclosure Type: Indoor
- Trim Type: Combination
- Paint Type: ANSI 61 Light Gray Finish
- Incoming Wire Range: #1 – 300 kcmil, Cu/Al 60 or 75°C

Notes

1. All main circuit breaker loadcenters are listed for use as service entrance equipment and are shipped with a neutral bonding strap preattached. The maximum rating of the panel is the main circuit breaker rating when used as service entrance equipment.
2. Ground bar kits priced separately.
3. Combination style covers may be used in surface or flush applications.

Knockouts

Code	Diameter in Inches						Diameter in mm				
A	1/2	3/4	—	—	—	—	12.7	19	—	—	—
B	1/2	—	—	—	—	—	12.7	—	—	—	—
C	1/2	1-1/4	1-1/2	2	2-1/2	—	12.7	31.7	38.1	50.8	63.5
D	1-1/4	1-1/2	2	2-1/2	—	—	31.7	38.1	50.8	63.5	—
E	1/2	3/4	1	—	—	—	12.7	19.0	25.4	—	—
F	1/2	3/4	1	1-1/2	2	—	12.7	19.0	25.4	38.1	50.8
G	1-1/4	1-1/2	2	—	—	—	31.7	38.1	50.8	—	—
H	1/2	3/4	1	1-1/4	1-1/2	—	12.7	19.0	25.4	31.7	38.1
I	1	1-1/4	1-1/2	2	2-1/2	—	25.4	31.7	38.1	50.8	63.5
J	1	1-1/4	1-1/2	—	—	—	25.4	31.7	38.1	—	—



Reference DWG # 96-4947

Used on Lowell Model No. ACLC-200-30-SC248ASM

Dimensions in Inches (mm)

THE INFORMATION ON THIS DOCUMENT IS CREATED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.	PREPARED BY		DATE	Cutler-Hammer			PITTSBURGH, PA	
	APPROVED BY		DATE	JOB NAME DESIGNATION				
	VERSION			TYPE	BR3040B200		DRAWING TYPE	
NEG-ALT NUMBER	REVISION	DWG SIZE		G.O.		ITEM		SHEET

Ratings

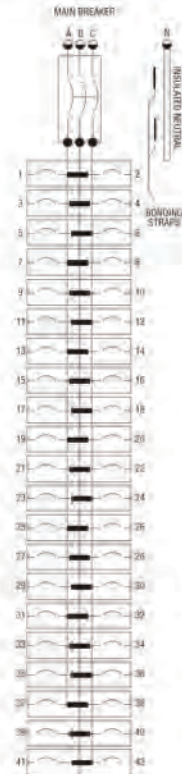
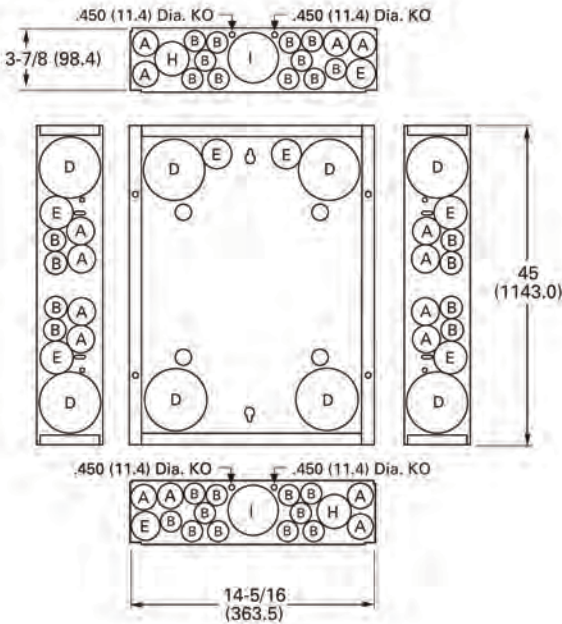
- Main Circuit Breaker — CC
- 225 Amperes, 3-Phase, 4-Wire, 120/20V AC or 240V AC
- Tin-Plated Aluminum Bus Bar
- Interrupting Rating 10 kAIC
- Spaces/Poles: 42/42
- Insulated/Bondable Neutral
- Enclosure Type: Indoor
- Trim Type: Surface with Door
- Paint Type: ANSI 61 Light Gray Finish
- Incoming Wire Range: #1 – 300 kcmil, Cu/Al 60 or 75°C

Notes

1. All main circuit breaker loadcenters are listed for use as service entrance equipment and are shipped with a neutral bonding strap pre-attached (commercial loadcenters do not have a pre-attached bonding strap). The maximum main rating of the panel is the main circuit breaker rating when used as service entrance equipment.
2. Ground bar kits priced separately.

Knockouts

Code	Diameter in Inches						Diameter in mm					
	1/2	3/4	—	—	—	—	12.7	19	—	—	—	—
A	1/2	—	—	—	—	—	12.7	—	—	—	—	—
B	1/2	—	—	—	—	—	12.7	—	—	—	—	—
C	1/2	1-1/4	1-1/2	2	2-1/2	—	12.7	31.7	38.1	50.8	63.5	—
D	1-1/4	1-1/2	2	2-1/2	—	—	31.7	38.1	50.8	63.5	—	—
E	1/2	3/4	1	—	—	—	12.7	19.0	25.4	—	—	—
F	1/2	3/4	1	1-1/2	2	—	12.7	19.0	25.4	38.1	50.8	—
G	1-1/4	1-1/2	2	—	—	—	31.7	38.1	50.8	—	—	—
H	1/2	3/4	1	1-1/4	1-1/2	—	12.7	19.0	25.4	31.7	38.1	—
I	1	1-1/4	1-1/2	2	2-1/2	—	25.4	31.7	38.1	50.8	63.5	—
J	1	1-1/4	1-1/2	—	—	—	25.4	31.7	38.1	—	—	—



Reference DWG # 96-4997

Used on Lowell Model No. ACLC-3P-225-42-SC248ASM

Dimensions in Inches (mm)

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	APPROVED BY		DATE					
	VERSION			TYPE	3BR4242B225		DRAWING TYPE	
NEG-ALT NUMBER	REVISION	DWG SIZE		G.O.	ITEM		SHEET	