



**BOSCH**

# Dual Battery Harnesses

D122L/D122



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Installation Instructions



# 1 Introduction

The D122L and D122 Dual Battery Harnesses protect the installer and the battery with the connection of two batteries, in parallel, to compatible Bosch Security Systems, Inc. B-Series and G-Series Control Panels. The B-Series Control Panels include the B4512 and B5512. The G-Series Control Panels include the D9412G, D7412G, D7212G, D9412GV2, D7412GV2, D7212GV2, D9412GV3, D7412GV3, D7212GV3, D9412GV4, D7412GV4, and D7212GV4. These harnesses use thermal circuit breakers to govern the circuits and to eliminate the hazards of batteries connected in parallel. The positive side (red wire) of the harness is in series with the circuit breaker. The harness breaks the electrical circuit of the battery when the thermal rating is exceeded, and prevents the battery circuit from creating a potentially harmful current overload condition.



**Warning!**

The control panels are internally protected, but if only one of the two batteries has reversed polarity, dangerous current overloads can result. This amount of current is extremely hazardous to human safety.



**Warning!**

Observe polarity! Always connect the harness leads to the control panel before connecting the batteries. The negative (black) wires connect to the BATTERY NEGATIVE terminal. The positive (red) wires connect to the BATTERY POSITIVE terminal.

**D122L dual battery harness with long leads**

Use the D122L harness to connect a control panel to batteries located in a separate enclosure. Do not use the battery cable supplied with the control panel with the D122L harness.



**Notice!**

The D122L harness is required with control panel installations for UL Bank Safe and Vault applications.

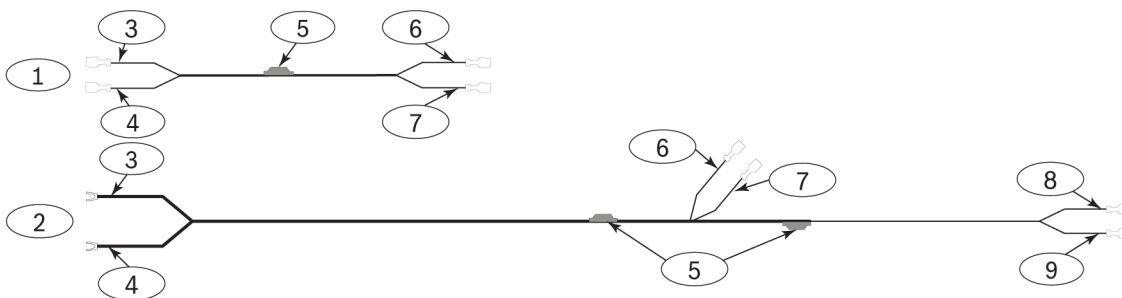


Figure 1.1: D122 and D122L Dual Battery Harnesses

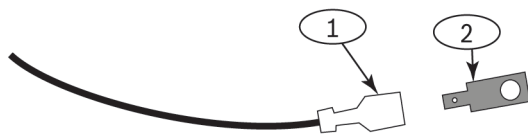
1	D122 Dual Battery Harness	6	P3 of D122 or D122L (red)
2	D122L Dual Battery Harness with Long Leads	7	P4 of D122 or D122L (black)
3	P1 of D122 or D122L (red)	8	P5 of D122L (red)

4	P2 of D122 or D122L (black)	9	P6 of D122L (black)
5	Circuit breakers		

## 2

### Installation

To connect either harness to a D1218 Battery, insert the terminal adapters into the slip-on spade connectors before connecting the harness to the bolt-fastened terminals on the D1218.



**Figure 2.1: Terminal Adapter for connection to D1218 Battery**

1	Slip-on spade connector	2	Terminal adapter
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#### D122L dual battery harness



**Notice!**

Do not use the battery cable supplied with the control panel with the D122L harness.

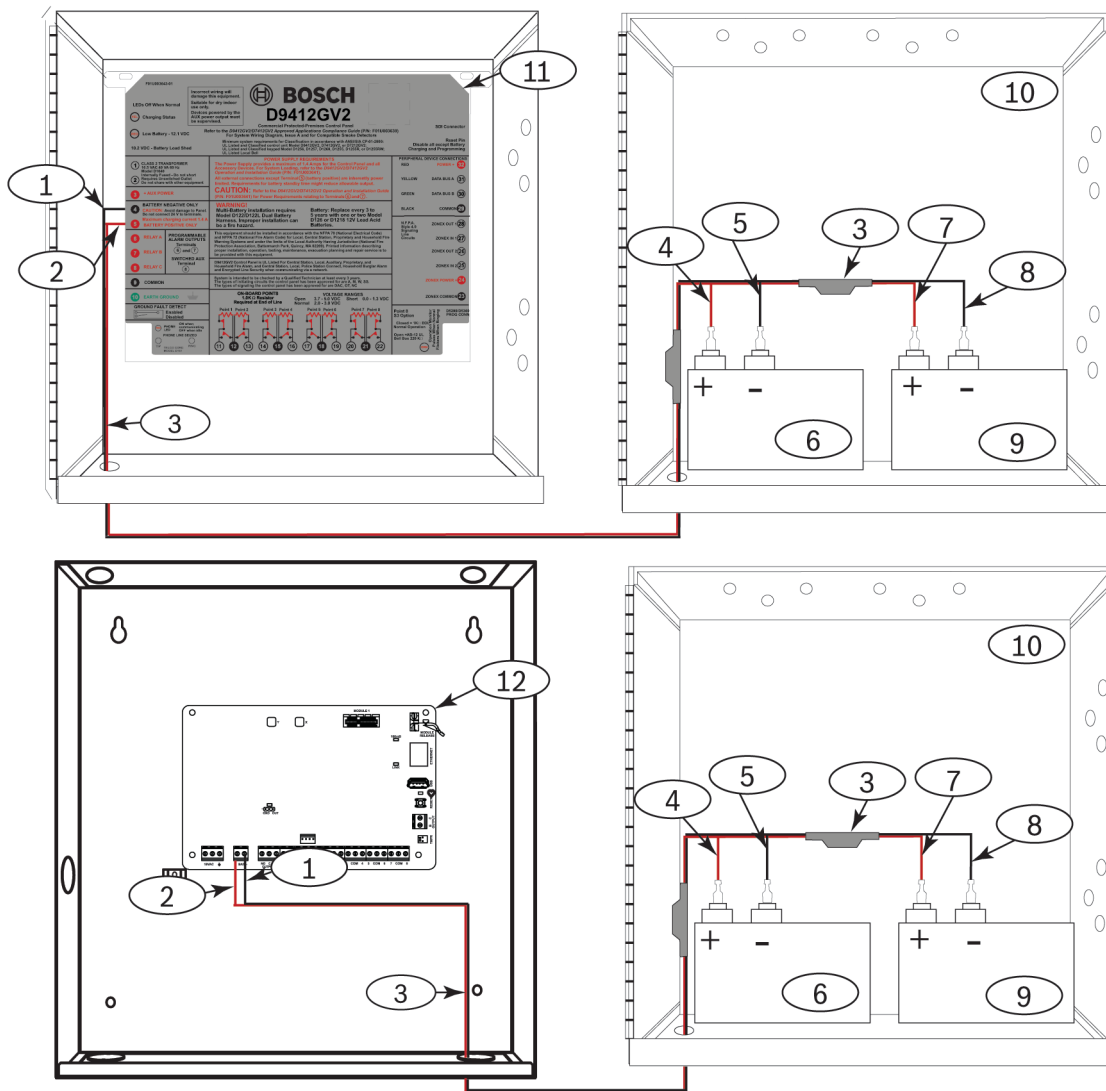
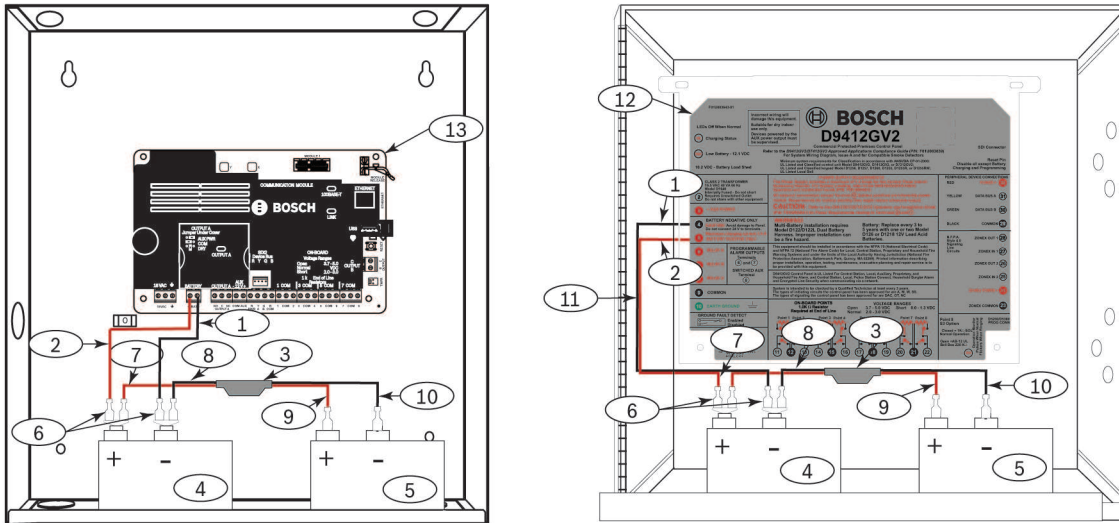


Figure 2.2: Wiring a B- or G-Series panel to batteries in a separate enclosure with the D122L harness

1	D122L-P2 negative lead (black wire)	7	D122L-P5 positive lead (red wire) to positive terminal on battery A
2	D122L-P1 positive lead (red wire)	8	D122L-P6 negative lead (black wire) to negative terminal on battery B
3	D122L dual battery harness with long leads	9	Battery B (12 V)
4	D122L-P3 positive lead (red wire) to positive terminal on battery A	10	Battery enclosure
5	D122L-P4 negative lead (black wire) to negative terminal on battery A	11	G-Series panel in enclosure
6	Battery A (12 V)	12 <sup>1</sup>	B-Series panel in enclosure
<sup>1</sup> The B-series panel comes either with or without the cover. Each version is wired identically.			

1. Connect the forked terminals (D122L-P1 and D122L-P2) on the D122L to the control panel terminals.
2. Connect the D122L harness slip-on spade connectors (D122L-P3 and D122L-P4) to the terminals on Battery A, observing polarity. The circuit breaker in the harness now protects the circuit for Battery A.
3. Connect the D122L harness slip-on spade connectors (D122L-P5 and D122L-P6) to the terminals on Battery B, observing polarity. The circuit breaker in the harness now protects the circuit for Battery B.

**D122 dual battery harness**



**Figure 2.3: Wiring a B- or G-Series panel to batteries in the same enclosure with the D122 harness**

1	D122-P2 negative lead (black wire)	8	D122-P4 negative lead (black wire) to negative terminal on battery A
2	D122-P1 positive lead (red wire)	9	D122-P5 positive lead (red wire) to positive terminal on battery A
3	D122 dual battery harness	10	D122-P6 negative lead (black wire) to negative terminal on battery B
4	Battery A (12 V)	11	G-Series battery cable
5	Battery B (12 V)	12	G-Series panel in enclosure
6	Terminal extenders/splitters	13 <sup>1</sup>	B-Series panel in enclosure
7	D122-P3 positive lead (red wire) to positive terminal on battery A		
1	<sup>1</sup> The B-series panel comes either with or without the cover. Each version is wired identically.		

1. While observing polarity, connect the leads on the control panel battery cable to the control panel terminals.
2. Connect the two brass terminal extender/splitters to the terminals on battery A.

3. Connect the slip-on spade connectors on the control panel battery cable to the terminal extender/splitters on battery A, observing polarity. An internal circuit breaker in the control panel now protects the circuit for battery A.
4. Connect the D122 harness slip-on spade connectors (D122-P1 and D122-P2) to the terminal extender/splitters on battery A, observing polarity.
5. Connect the battery harness slip-on spade connectors (P3 and P4) to the terminals on battery B, observing polarity. The circuit breaker contained in the D122 harness now protects the circuit for battery B.



### 3 Technical data

#### Mechanical

Harness length	
- D122:	~18 in. (457 mm)
- D122L	~46 in (1168 mm)



**Bosch Security Systems, Inc.**

130 Perinton Parkway  
Fairport, NY 14450  
USA

**[www.boschsecurity.com](http://www.boschsecurity.com)**

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**Bosch Sicherheitssysteme GmbH**

Robert-Bosch-Ring 5  
85630 Grasbrunn  
Germany