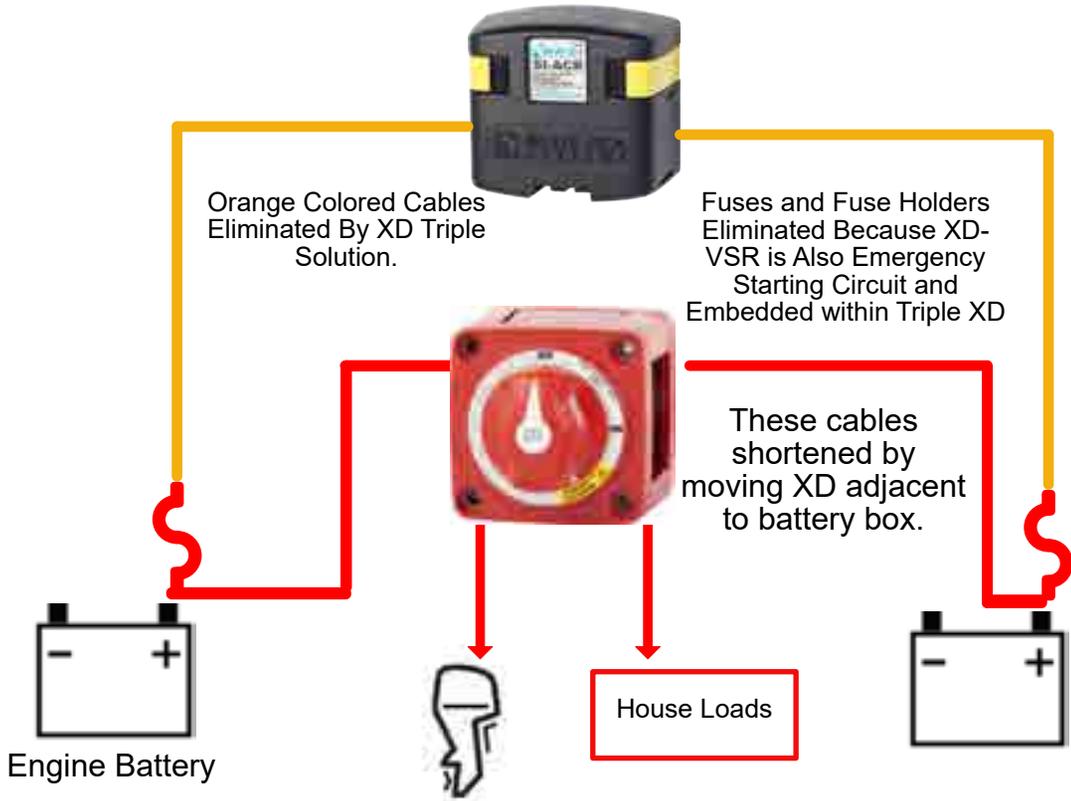
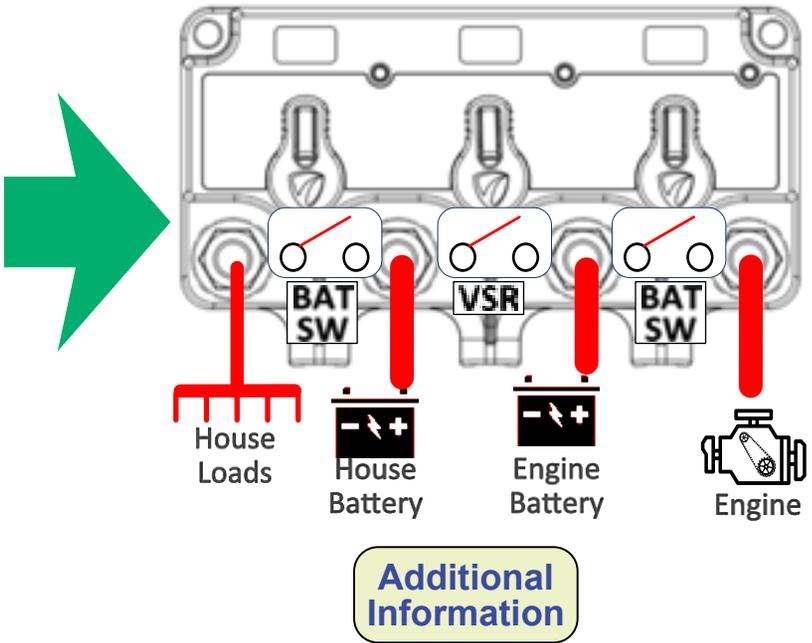


Example of Typical Legacy Manual Battery Switch Approach



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Improved Approach With XD Relay



Example PN	Primary Features
8730-1939B	Value-focused solution - Manual-only switching for house and engine loads at device, Full VSR capability including remote and manual parallel.
8730-1535B	Full remote and manual capable battery switches and VSR. Flying wires for installs not interested in sealed Deutsch style connectors
8830-1535B	Full remote and manual capable battery switches and VSR. Individual DTM connectors for each relay if replacing legacy ML Series Relays
8830-2535B	Full remote and manual capable battery switches and VSR. Single Deutsch DT connector helps error-proof production.

Significant Benefits from XD Approach
300 Amp capable VSR offer future-proof capability
Saves space and cost from fewer parts, less and shorter cables & fuses
Advanced VSR algorithm prevents cycling, optimizes charging
90% lower parasitic off-state power draw on average.
Remote switching discourages boaters from setting and leaving batteries combined, increasing safety afloat, and optimizing the longevity of the engine battery.
Fully adjustable VSR open & close settings

• Additional product variations available for Lithium Battery applications, no knobs in specific locations, and single wire pulse on/pulse off control requirements. Contact Egis Mobile Electric for details.

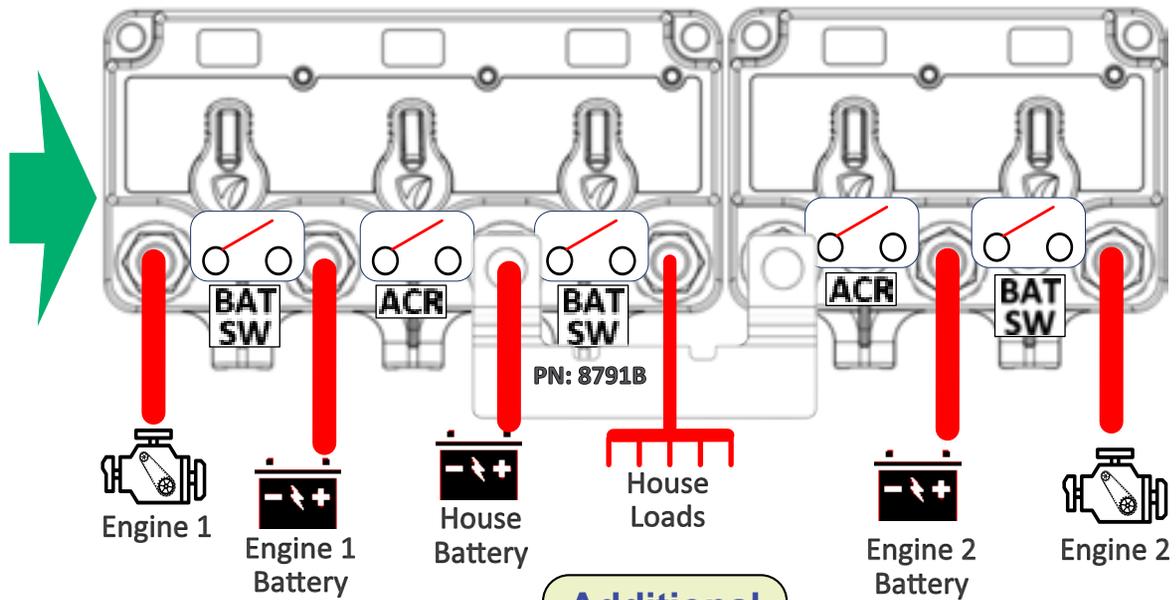
<small>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS .XX = ±.13 ANGULAR = ±° .XXX = ±.050 FRACTIONAL = ± </small>	NAME	DATE	 Egis Mobile Electric 3135 Mercer Ave, Ste 102 Bellingham, WA 98225, USA
	DRAWN		
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	APPROVED		
<small>DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS THIRD ANGLE PROJECTION</small>	<small>THIS DRAWING AND THE INFORMATION CONTAINED WITHIN IT ARE CONFIDENTIAL AND MAY NOT BE COPIED OR DISCLOSED WITHOUT THE WRITTEN PERMISSION OF EGIS MOBILE ELECTRIC.</small>		TITLE XD Relay System - Dual Battery System
<small>SCALE</small> NTS	<small>SIZE</small> C	<small>WEIGHT</small>	<small>SHEET</small> 1 of 1

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ZONE	REV.	DESCRIPTION	DATE	APPROVED

Example of Legacy Individual Manual & Remote Battery Switch and Charge Management Products



Improved Approach With XD Relays



Additional Information

Example PN	Primary Features
8730-1939B + 8720-1390B +8791B	Value-focused solution - Manual-only switching for house and engine loads at device, Full VSR capability including remote and manual parallel.
8730-1535B + 8720-1350B + 8791B	Full remote and manual capable battery switches and VSR. Flying wires for installs not interested in sealed Deutsch style connectors
8830-1535B + 8820-1350B + 8791B	Full remote and manual capable battery switches and VSR. Individual DTM connectors for each relay if replacing legacy ML Series Relays
8830-2535B + 8820-6350B + 8791B	Full remote and manual capable battery switches and VSR. Single Deutsch DT connector helps error-proof production.

Significant Benefits from XD Approach
300 Amp capable VSR offer future-proof capability
Saves space and cost from fewer parts, less and shorter cables & fuses
Advanced VSR algorithm prevents cycling, optimizes charging
90% lower parasitic off-state power draw on average.
Remote switching discourages boaters from setting and leaving batteries combined, increasing safety afloat, and optimizing the longevity of the engine battery.
Fully adjustable VSR open & close settings

• Additional product variations available for Lithium Battery applications, no knobs in specific locations, and single wire pulse on/pulse off control requirements. Contact Egis Mobile Electric for details.

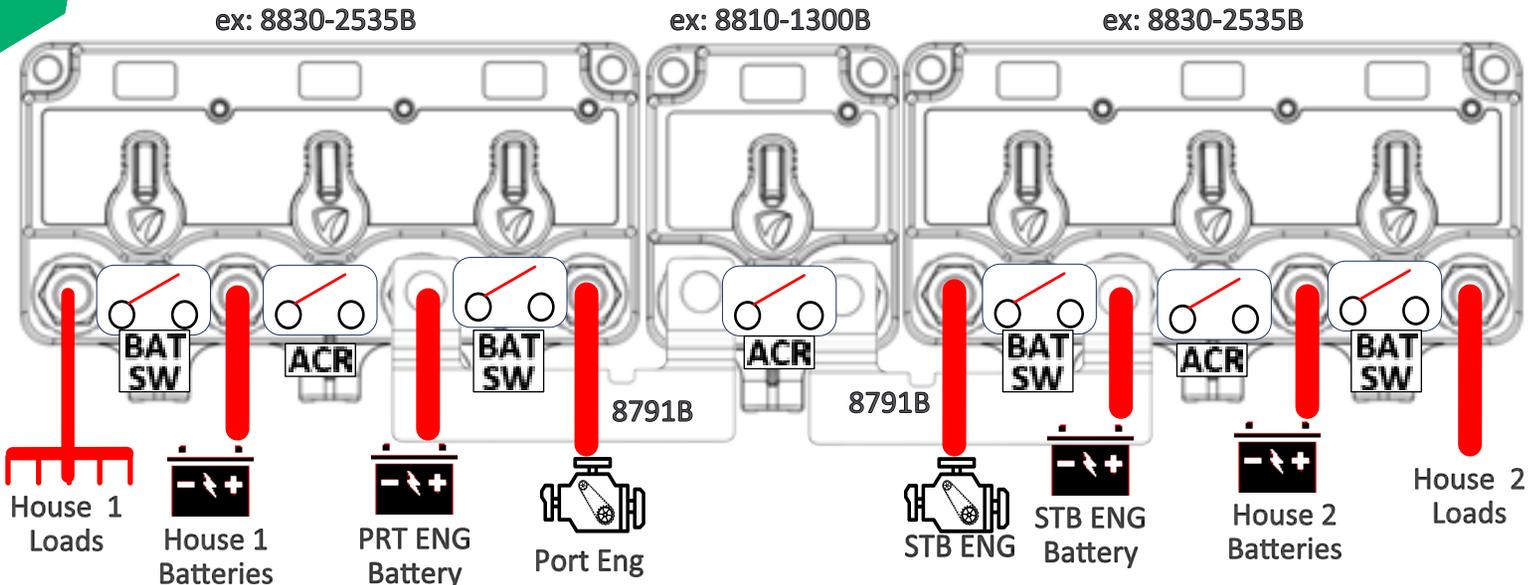
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS _XX = ±.13 ANGULAR = ±° _XXX = ±.050 FRACTIONAL = ±	NAME	DATE	 Egis Mobile Electric 3135 Mercer Ave, Ste 102 Bellingham, WA 98225, USA
DRAWN			
CHECKED			TITLE XD Relay System - Triple Battery System Example
APPROVED			SIZE C DWG NO.
DO NOT SCALE DRAWING			SCALE NTS WEIGHT SHEET 1 of 1
BREAK ALL SHARP EDGES AND REMOVE BURRS			
THIRD ANGLE PROJECTION	THIS DRAWING AND THE INFORMATION CONTAINED WITHIN IT ARE CONFIDENTIAL AND MAY NOT BE COPIED OR DISCLOSED WITHOUT THE WRITTEN PERMISSION OF EGIS MOBILE ELECTRIC.		

Example of Legacy Individual Manual & Remote Battery Switch and Charge Management Products



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Improved Approach With XD Relays



Additional Information

Example PN	Primary Features
2x 8730-1939B + 8710-1300B + 2x 8791B	Value-focused solution - Manual-only switching for house and engine loads at device, Full VSR capability including remote and manual parallel.
2x 8730-1535B + 8710-1300B + 2x 8791B	Full remote and manual capable battery switches and VSR. Flying wires for installs not interested in sealed Deutsch style connectors
2x 8830-1535B + 8810-1300B + 2x 8791B	Full remote and manual capable battery switches and VSR. Individual DTM connectors for each relay if replacing legacy ML Series Relays
2x 8830-2535B + 8810-1300B + 2x 8791B	Full remote and manual capable battery switches and VSR. Single Deutsch DT connector helps error-proof production.

Significant Benefits from XD Approach
300 Amp capable VSR offer future-proof capability
Saves space and cost from fewer parts, less and shorter cables & fuses
Advanced VSR algorithm prevents cycling, optimizes charging
90% lower parasitic off-state power draw on average.
Remote switching discourages boaters from setting and leaving batteries combined, increasing safety afloat, and optimizing the longevity of the engine battery.
Fully adjustable VSR open & close settings

• Additional product variations available for Lithium Battery applications, no knobs in specific locations, and single wire pulse on/pulse off control requirements. Contact Egis Mobile Electric for details.

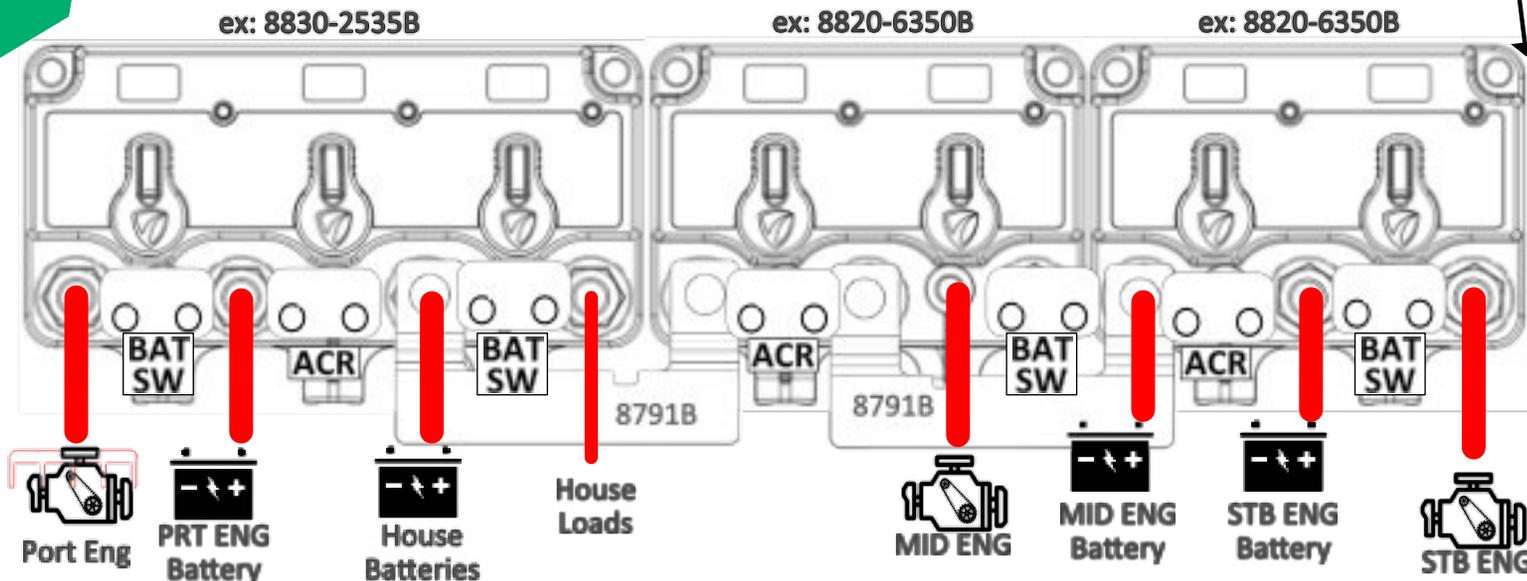
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS .XX = ±.13 .XXX = ±.050	NAME	DATE	<p>Egis Mobile Electric 3135 Mercer Ave, Ste 102 Bellingham, WA 98225, USA</p>
SURFACE FINISH ✓	DRAWN		
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BREAK ALL SHARP EDGES AND REMOVE BURRS	APPROVED		
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Example of Legacy Individual Manual & Remote Battery Switch and Charge Management Products



Improved Approach With XD Relays

Additional Batteries Beyond Five (5): Add Dual XDs + 8791B Busbar to Right Side.



Additional Information

Example PN	Primary Features
8730-1939B + 2x 8720-1390B + 2x 8791B	Value-focused solution - Manual-only switching for house and engine loads at device, Full VSR capability including remote and manual parallel.
8730-1535B + 2x 8720-1350B + 2x 8791B	Full remote and manual capable battery switches and VSR. Flying wires for installs not interested in sealed Deutsch style connectors
8830-1535B + 2x 8820-1350B + 2x 8791B	Full remote and manual capable battery switches and VSR. Individual DTM connectors for each relay if replacing legacy ML Series Relays
8830-2535B + 2x 8810-6350B + 2x 8791B	Full remote and manual capable battery switches and VSR. Single Deutsch DT connector helps error-proof production.

• Additional product variations available for Lithium Battery applications, no knobs in specific locations, and single wire pulse on/pulse off control requirements. Contact Egis Mobile Electric for details.

Significant Benefits from XD Approach

- 300 Amp capable VSR offer future-proof capability
- Saves space/cost from fewer parts, less/shorter cables & fuses
- Advanced VSR algorithm prevents cycling, optimizes charging
- 90% lower parasitic off-state power draw on average.
- Remote switching discourages boaters from setting and leaving batteries combined, increasing safety afloat, and optimizing the longevity of the engine battery.
- Fully adjustable VSR open & close settings
- Robust manual override knob (vs susceptible BEP RBS knob)

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<small>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS AND INCHES.</small> <small>DO NOT SCALE DRAWING</small> <small>BREAK ALL SHARP EDGES AND REMOVE BURRS</small> <small>THIRD ANGLE PROJECTION</small>	<small>THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS ABSOLUTELY CONFIDENTIAL AND NOT TO BE DISCLOSED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF EGIS MOBILE ELECTRIC.</small>		Egis Mobile Electric 3125 Mercor Ave, Ste 102 Bellingham, WA 98225, USA
THE XD Relay - Quad Battery Triple Eng - Recc Layout		1 of 1	

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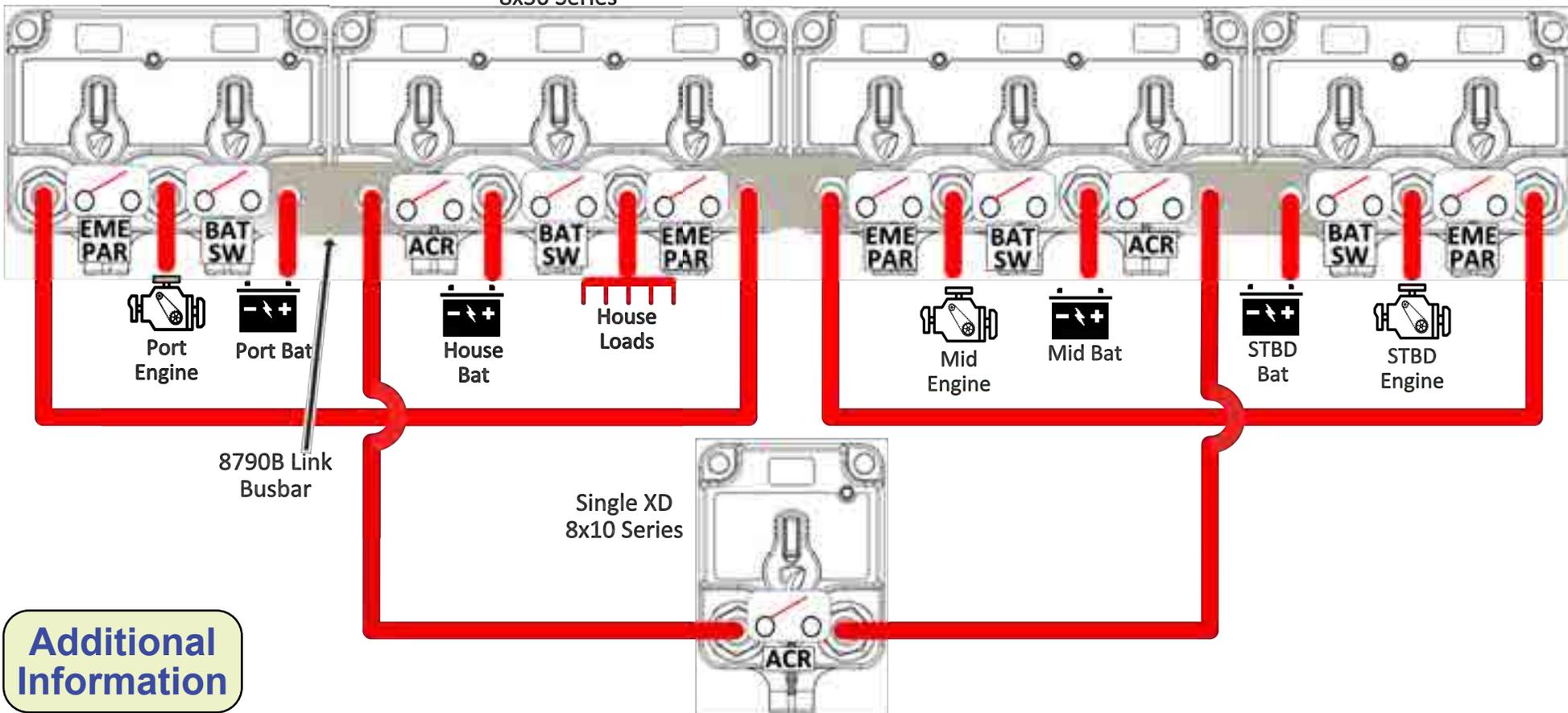
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Dual XD
8x20 Series

Triple XD
8x30 Series



Additional Information

Example PN	Primary Features
8730-1355B + 8730-1553B + 2X 8720-1550B + 8710-1300B + 3x 8790B	Full remote and manual capable battery switches and VSR. Flying wires for installs not interested in sealed Deutsch style connectors
8830-1355B + 8830-1553B + 2X 8820-1550B + 8810-1300B + 3x 8790B	Full remote and manual capable battery switches and VSR. Individual DTM connectors for each relay if replacing legacy ML Series Relays
8830-2355B + 8830-2553B + 2X 8820-6550B + 8810-6300B + 3x 8790B	Full remote and manual capable battery switches and VSR. Single Deutsch DT connector helps error-proof production.
<ul style="list-style-type: none"> Additional product variations available for Lithium Battery applications, no knobs in specific locations, and single wire pulse on/pulse off control requirements. Contact Egis Mobile Electric for details. 	

Significant Benefits from XD Approach
300 Amp capable VSR offer future-proof capability
Advanced VSR algorithm prevents cycling, optimizes charging
85% lower parasitic off-state power draw on average.
Remote switching discourages boaters from setting and leaving batteries combined, increasing safety afloat & optimizing engine battery longevity.
Fully adjustable VSR open & close settings
Robust manual override knob (vs susceptible BEP RBS knob)

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SURFACE FINISH ✓	DRAWN		
DO NOT SCALE DRAWING	CHECKED		TITLE XD Relay-4 Battery 3 Eng+House w/Battery Isolation Capability
BREAK ALL SHARP EDGES AND REMOVE BLURRS	APPROVED		SIZE C
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			SHEET 1 of 1

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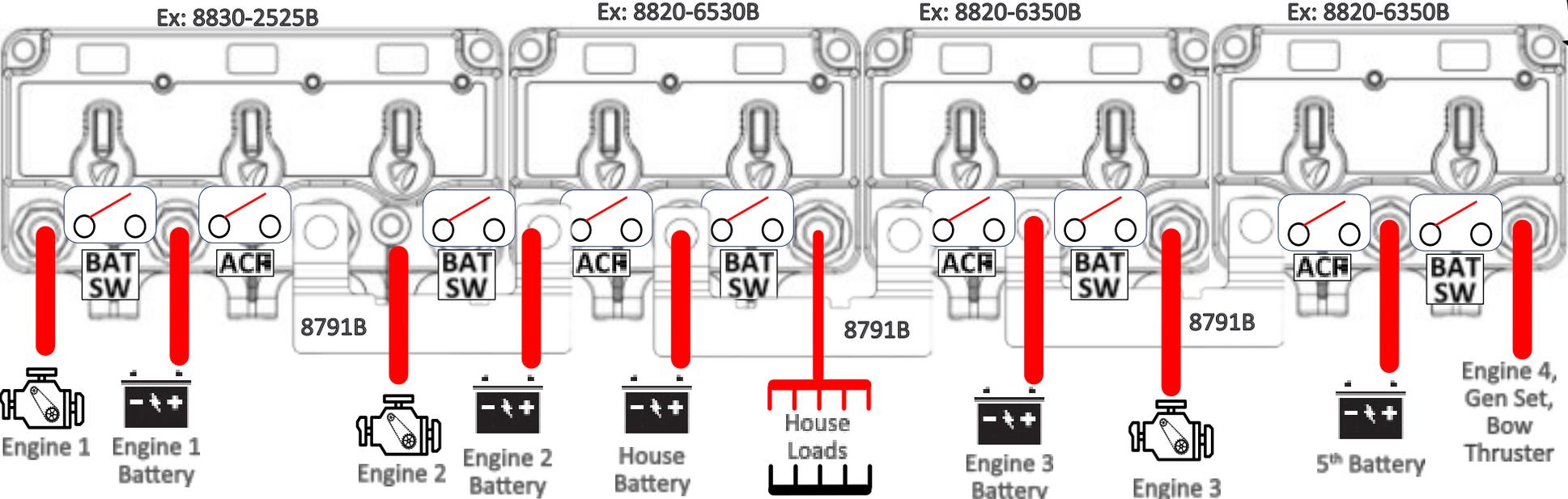
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Additional Information

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Simplified Approach With XD Relays

Additional Batteries Beyond Five (5): Add Dual XDs + 8791B Busbar to Right Side.



Example PN	Primary Features
8730-1535B + 3x 8720-1350B + 3x 8791B	Full remote and manual capable battery switches and VSR. Flying wires for installs not interested in sealed Deutsch style connectors
8830-1535B + 3x 8820-1350B + 2x 8791B	Full remote and manual capable battery switches and VSR. Individual DTM connectors for each relay if replacing legacy ML Series Relays
8830-2535B + 3x 8820-6350B + 2x 8791B	Full remote and manual capable battery switches and VSR. Single Deutsch DT connector helps error-proof production.

• Additional product variations available for Lithium Battery applications, no knobs in specific locations, and single wire pulse on/pulse off control requirements. Contact Egis Mobile Electric for details.

Significant Benefits from XD Approach
300 Amp capable VSR offer future-proof capability
Saves space/cost from fewer parts, less/shorter cables & fuses
Advanced VSR algorithm prevents cycling, optimizes charging
90% lower parasitic off-state power draw on average.
Remote switching discourages boaters from setting and leaving batteries combined, increasing safety afloat, and optimizing the longevity of the engine battery.
Fully adjustable VSR open & close settings
Robust manual override knob (vs susceptible BEP RBS knob)

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Bellevue, WA 98020, USA

THE XD Relay - Five Battery, 3-4 Engine Example

1 of 1

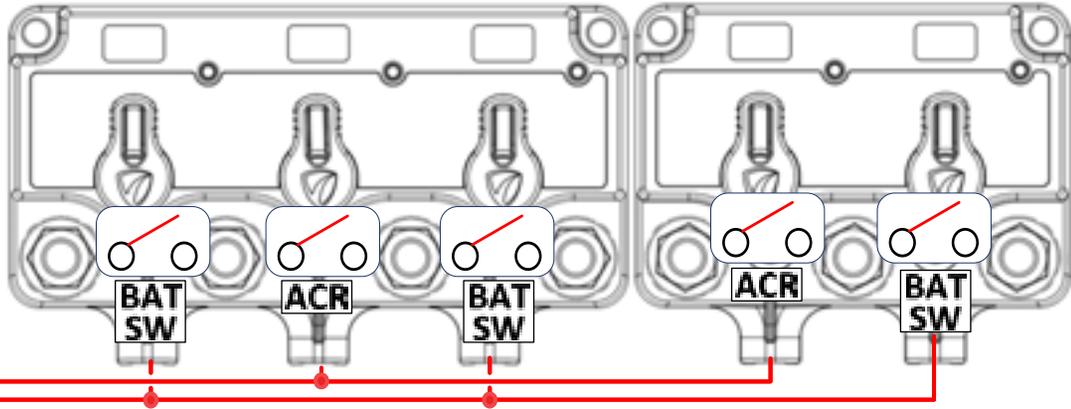
Metal push button switches shown, but any appropriate switch design may be used including rocker and toggle or digital switching system outputs

Example of Three Battery Switch / Dual VSR Configuration. Less or More Complex Systems Configured in a Similar Fashion

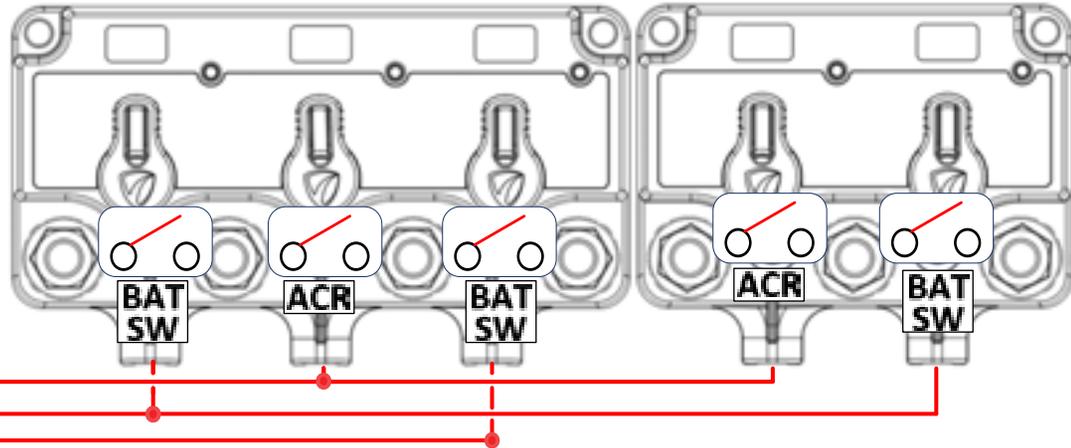
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See detailed specification sheets for complete wiring options including optional dual wire remote control, single wire pulse control, start isolation inputs, ground connections, and VSR Open/Close dual control.

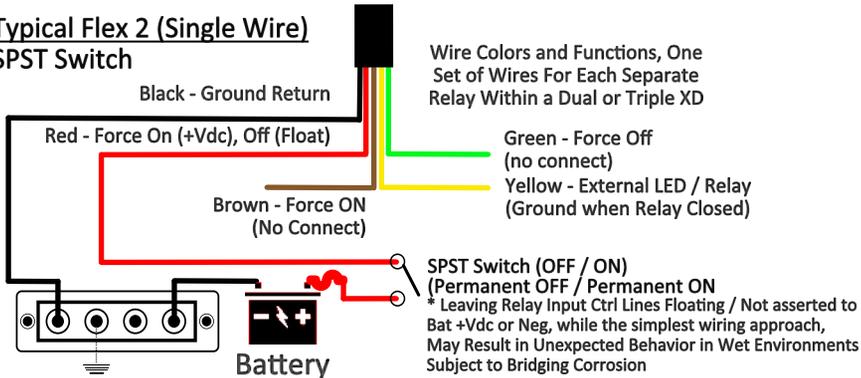
House/Engine Remote SPST Switch Permanent On/Off
Optional Emergency Parallel SPST Switch Momentary On



House Control Switch SPST Switch Permanent On/Off
Engine(s) Control Switch SPST Switch Permanent On/Off
Optional Emergency Parallel SPST Switch Momentary On



Typical Flex 2 (Single Wire) SPST Switch



While VSR control switch could be a SPST permanent ON or even a SPDT with force Open and Closed signals, Egis Mobile Electric always recommends momentary ON control switches for controlling Voltage Sensitive Relays in order to ensure that a boater will inadvertently leave all batteries tied together and later on deplete all batteries.

Additional Information

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BREAK ALL SHARP EDGES AND REMOVE BURRS	SIZE C	DWG NO.	SCALE NTS
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	SHEET	1 of 1	