

The Viking Corporation, 210 N Industrial Park Road, Hastings MI 49058

Telephone: 269-945-9501 Technical Services 877-384-5464 Fax: 269-945-4495 Email: techsvcs@vikingcorp.com

1. DESCRIPTION

The Viking Model B-1 Par-3 Release Control Panel is a supervised, 24 Volt, microprocessorcontrolled Release Control Panel. The panel is designed to operate up to two electric release devices (usually solenoid valves) in the release piping of deluge or preaction systems. The panel is available for use with either 120 VAC or 230 VAC power supplies. A built-in battery compartment holds two 12 Volt batteries that are charged by an internal battery charger. Batteries are available to provide up to 90 hours of backup power during AC power failure.

The Model B-1 Release Control Panel can be used with a wide range of compatible initiating devices, such as heat (including linear heat detection systems like the Protectowire Systems), photoelectric, ionization, and smoke detectors.

A dip switch 'Function Selector' allows field programming for one of four possible input/output combinations (refer to Table 2).

In fire conditions, when an initiating device circuit (or predetermined combination of circuits) is energized, the panel activates a combination of release device circuits and alarm circuits according to the 'Function Selector' setting. On the panel's display board, the appropriate Alarm, Trouble, and Supervisory LED's will flash until the event has been acknowledged. After depressing the Tone or Alarm Silence button, the LED will remain steadily illuminated until the panel is reset.

2. LISTINGS AND APPROVALS

Refer to Table 1

3. TECHNICAL DATA

I. Specifications

A. Enclosure

- Dimensions: 16.125" high x 14.625" wide x 5.375" deep (50 cm x 37,1 cm x 13,7 cm)
- Weight: 23 lbs. (10,4 kg)
- Finish: Red Enamel
- Vented Enclosure

B. Environment

- Temperature: 32 °F to 120 °F (0 °C to 48 °C)
- Humidity: 85% Relative Humidity (non-condensing) at 90 °F (32 °C) maximum

C. AC Power

- Par-3 and Par-3C: 120 VAC, 50/60 Hz, 1.2 amps
- Par-3E: 230 VAC, 50 Hz, 0.65 amps
- Wire size: minimum #14 AWG with 600 V insulation

D. Battery

- Type- Lead Acid
- Maximum charging circuit: 27.6V, 1.5 A See ACCESSORIES for batteries available from Viking.

E. Initiating Device (Input) Circuits

- Four style B (Class B)/Style D (Class A) circuits
- Input 1: Detection Circuit
- Input 2: Detection Circuit
- Input 3: Waterflow (Alarm Pressure Switch)
- Input 4: Supervisory Circuit

F. System Alarm

- Power limited circuitry
- Fuses: 2AG, 4 amperes
- Normal operating voltage: 24VDC (ripple = 10mV peak to peak)
- Alarm Current: 15mA minimum
- Short circuit current: 40mA maximum
- Maximum detector current in standby: 2 milliamps (peak) per zone
- Maximum loop resistance: 100 ohms
- End-of-Line resistor: 4.7K (provided)

Viking Technical Data may be found on The Viking Corporation's Web site at http://www.vikinggroupinc.com. The Web site may include a more recent edition of this Technical Data Page.







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- Note: leave E-O-L resistors provided, on all unused circuits.
- Detector loop current is sufficient to ensure operation of one alarmed detector per zone.
- Supervisory current: 5mA (including End-of-Line Resistor)

G. Heat Detectors:

• Detection circuits allow for installation of any number of listed or approved normally open thermal detectors.

H. Smoke Detectors:

- Contact the Viking distributor for a list of compatible smoke detectors, information concerning the maximum number of smoke detectors allowed per zone, and standby power requirements for the smoke detector used. Also, refer to appropriate Fire Protection Equipment Approval Guides.
- For supervised four-wire smoke detectors, connect the Power Supervision Relay to the last detector base 24V screw terminals.
- See ACCESSORIES.

I. Indicating Appliance and Releasing (output) Circuits

- Two Style Y and two Style Y/Z circuits
- Output 1: Alarm Bell(Style Y/Z)
- Output 2: Waterflow or Trouble Horn (Style Y/Z)
- Output 3: Releasing Circuit 1 (Style Y)
- Output 4: Releasing Circuit 2 or Trouble Horn(Style Y)
- Normal operating voltage: 24VDC
- Total current available to all four circuits + RMS regulated power output circuit, not to exceed: 2.25 AMPS
- Maximum signaling current per circuit: 2.25 AMPS
- Supervised Circuitry Power limited circuitry (except for Municipal Box output)
- Fuses: 2AG, 4 amperes
- Maximum allowable voltage drop due to wiring: 2 VDC.
- End-of-Line resistor: 4.7K (provided)
- Note: leave E-O-L resistors provided, on all unused circuits.
- Note: Wiring must be configured to maintain a minimum voltage of 20.4V on release circuits.
- Contact the Viking distributor for a list of compatible indicating appliances and releasing devices. Also, refer to Viking Technical Data and appropriate Fire Protection Equipment Approval Guides.

J. Alarm Relay

• Basic panel includes one non-silenceable Form-C dry alarm contact rated 2 amps at 30 VDC and 0.5 amps at 30 VAC (resistive).

K. Trouble Relay

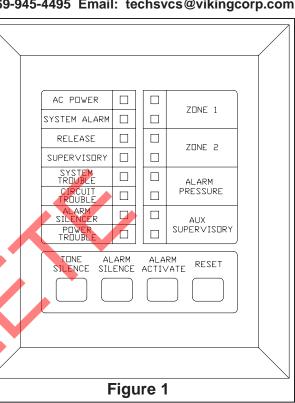
• Basic panel includes one Form-C dry alarm contact rated 2 amps at 30 VDC and 0.5 amps at 30 VAC (resistive). Trouble relay will silence when trouble condition is cleared.

L. Zone Relay Module

• Model B-1 Panels include one Zone Relay Module (4XZM) providing dry Form-C contacts controlled by each of the four output circuits plus one general alarm and one panel/field-wiring trouble relay. See Table 2.

M. Power Outputs

- Four-wire Smoke Detector Power (resettable): Up to 200 mA total (four-wire smoke detector power plus non-resettable power combined) DC current available. Maximum ripple voltage: 10mV p/p.
- Non-resettable Power: Up to 200 mA total (four-wire smoke detector power plus non-resettable power combined) DC current available.
- Maximum ripple voltage: 10mV p/p.
- RMS Regulated Power: Total current available for external devices: 0.5 amp (subtracted from 2.25 A available to indicating appliance circuits) DC current available.
- Maximum ripple voltage: 100mV p/p.





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N. Front Panel Control Switches (Refer to Figure 1)

- Switch 1: Tone Silence
- Switch 2: Alarm Silence Tone Silence and Alarm Silence control switches can be activated to acknowledge alarms. A second "trouble" will resound the piezo.
- Switch 3: Alarm Activate The Alarm Activate switch may be used to activate indicating circuits and relays.
- Switch 4: System Reset The Reset switch clears any activated output circuits. If alarm or trouble conditions exist when the reset switch is pushed, they will re-activate the panel.

O. Front Panel Zone Status LEDs

- When the panel is activated, zone status LEDs illuminate, to indicate the status of Zone 1, Zone 2, Alarm Pressure, and Auxiliary Supervisory circuits.
- Alarm (red) LEDs indicate activation of a detection device.
- Trouble (yellow) LEDs indicate electrical circuit failure, such as short circuits and loose wires.

P. Front Panel System Status LEDs

- The presence of AC Power is indicated by a constant green LED, indicating normal conditions.
- Alarm (red), Trouble (yellow), and Supervisory (yellow) LEDs activate as required to indicate System Alarm, Release operation, Supervisory Device activation, and Circuit trouble.
- · LEDs also illuminate to indicate when the Alarm Silence switch has been activated.

Q. Last Event Recall

· Follow procedure printed in Par-3 Owner's Manual provided with panel.

R. Zone Disable Function

· Follow procedure printed in Par-3 Owner's Manual provided with panel.

S. Battery Fail and Earth Fault supervision

• See Figure 2 for location of LEDs

T. Discharge timer option

- Latched, 10 or 15 minutes. Refer to Par-3 Owner's manual included with panel. Also refer to installation standards, Technical Data, and all Authorities Having Jurisdiction when using timer configurations.
- Output circuits protected against false activation by two step command sequence

U. Slide in zone identification labels

• Spare labels included in Par-3 Owner's Manual provided with panel.

V. Other Features

- Piezo Sounder
- Alarm signals are latching
- Trouble signals are self restoring
- Alarm and Trouble resound

II. Ordering Information

Part Numbers - Refer to Table 1

Available since 1991

A. Modules and Accessories (order separately)

1. Batteries

- Two batteries of the same AH rating are required.
- 12V 7 Amp-Hour Viking P/N 07920
- 12V 12 Amp-Hour Viking P/N 07921 12V 18 Amp-Hour Viking P/N 09867
- Plug-in connector is provided with the Panel.
- See POWER CALCULATIONS to determine which batteries meet standby battery requirements.
- 2. Zone Relay Module (4XZM) (Viking Part No. 07912)
- Model B-1 Panels can accommodate a second 4XZM Zone Relay Module (one included in each panel) or one of the following two Modules:
- 3. Transmitter Module (4XTM) (Viking P/N 07909)
- Provides a supervised output for local energy municipal box transmitter and alarm and trouble reverse polarity circuits.

4. LED Interface Module (4XLM) (Viking P/N 07910)

• For Remote Annunciator (RZA-4X) described below (Required for NYC approval).



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- 5. Remote Annunciator (RZA-4X) (Viking P/N 07911)
- Mounts on standard single-gang box. (LED Interface Module (4XLM) described above is required).
- Provides "System Trouble" LED
- Local Piezo Sounder
- Silence Switch (for local sounder)
- Alarm/Waterflow Bell LED
- Waterflow/Supervisory Bell LED
- Releasing Circuit 1 LED
- Supervisory Bell/Release Circuit 2 LED.
- 6. End-of-Line resistor (Viking Part No. 07913)
- 4.7K, 1/2 Watt, with terminal connector both ends, (for two-wire supervised circuits)
- 7. Power Supervisory Relay Coil (Viking Part No. 07919)
- · For four-wire smoke detector circuits
- 8. Voltage and Current Meters (4XZMM) (Viking Part No. 07917)
- Mount inside cabinet
- 9. Digital Communicator NOTI-FIRE 911 (Viking Part No. 07918)
- Kit For Central Station service
- 10. RFI Retrofit Kit (Viking Part No. 12696)
- Includes Ferrite Beads, Transzorb and Dead Front Protective Panel

4. INSTALLATION

Prior to installation, review the Par-3 Owner's Manual and Viking Field Wiring Diagrams. (See package inside panel.) Observe all instructions provided in the Par-3 Owner's Manual. Field wiring must be according to VIKING FIELD WIRING DIAGRAMS for the specific mode of operation required. See Table 1.

All wiring should be done in accordance with National and/or Local codes for fire alarm systems.

The Authority Having Jurisdiction may have additional requirements.

- 1. Mount the cabinet in a clean, dry, vibration-free area where temperature and humidity conditions do not exceed limitations indicated in TECHNICAL DATA.
- 2. Verify that all initiating devices (detectors), indicating appliances, and releasing devices are compatible with the Model B-1 Par-3 Release Control Panel. Contact the Viking distributor for a list of compatible devices. Also, refer to appropriate Fire Protection Equipment Approval Guides.
- 3. Wire all alarm initiating devices sequentially for proper supervision.
- 4. Pull required conductors through the knockouts provided.
- 5. Prior to connecting to the panel, verify continuity of all circuitry.
- 6. Prior to connecting to the panel, check for, and correct any short circuits.
- 7. Make electrical connections to control panel for the detection, supervisory, alarm, trouble, and release circuits, according to appropriate VIKING FIELD WIRING DIAGRAMS for the system used and the Owner's Manual provided with the panel.
 - a. Where indicated on VIKING FIELD WIRING DIAGRAMS, install the 4.7 K Ohm ½ Watt End-of-Line Resistor (provided in panel) at the remote end of circuit. End-of-Line Resistors should NOT be installed across Release Circuits.
 - b. On all un-used circuits, leave the 4.7 K Ohm ½ Watt End-of-Line Resistor (provided in panel) in place.
 - c. Maintain polarity on alarm bell and trouble bell circuits. Do not energize the panel until all associated, modules, and interconnecting cables have been connected.
- 8. Prior to energizing the panel:
 - a. Verify that dip switches controlling panel operation are in the proper position for the system used. Refer to Table 2 and VIKING FIELD WIRING DIAGRAMS.
 - b. Verify that all modules are securely and properly positioned on their pins. If a module is loose, carefully align all pins and press firmly into position.
- 9. Connect non-energized AC power to the panel. Refer to Figure 2 and VIKING FIELD WIRING DIAGRAMS.
 - a. Connect the wire providing in-coming voltage to the terminal marked "H".
 - b. Connect the neutral wire to the terminal marked "N".
 - c. Connect the ground wire to the terminal marked "G".
- 10. Procedure for connecting Batteries: Note: Two battery plug/wire assemblies (long leads with plug) and jumper (short) wires are provided with each panel. Connectors on one plug/wire assembly fit 7.0 AH Batteries. Connectors on the other plug/wire assembly fit 12.0 AH Batteries.
 - a. Position batteries end-to-end with terminals adjacent. Select the proper plug/wire assembly for the batteries used.



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- b. Connect the long RED lead to the positive terminal of one battery, and the long black lead to the negative terminal of the other.
- c. Place batteries inside the battery compartment of the Par-3 Release Control Panel with the unused terminals toward the open door. Install batteries in the upright position only.
- d. Plug the plug-in connector to J9 on the main board of the panel. (Refer to Figure 2 and VIKING FIELD WIRING DIAGRAMS.) DO NOT install jumper at this time.

To energize the panel and place the system in service:

- 11. Energize the AC power supply to the panel. The Piezo will sound, and the "System Trouble" and "Power Trouble" LEDs will flash.
- 12. Use the jumper (short) wire to connect the unused negative terminal of one battery with the unused positive terminal of the other battery. The Piezo should silence, and the "System Trouble" and "Power Trouble" LEDs should stop flashing.
- 13. Perform appropriate tests to verify proper operation of the system.
- 14. After placing the system in service, close and lock the panel to prevent tampering with the unit.

When installing optional cards, modules, inter-connecting cables, or other associated equipment, refer to MAINTENANCE, technical data for the optional equipment, and Owner's Manual provided with the panel.

6. INSPECTIONS, TESTS AND MAINTENANCE

NOTICE: THE OWNER IS RESPONSIBLE FOR MAINTAINING THE FIRE PROTECTION SYSTEM AND DEVICES IN PROPER OPERAT-ING CONDITION. THE VIKING MODEL B-1 PAR-3 RELEASE CONTROL PANEL MUST BE KEPT FREE OF FOREIGN MATTER AND ENVIRONMENTAL CONDITIONS THAT COULD IMPAIR ITS OPERATION.

For minimum maintenance and inspection requirements, refer to NFPA 25. In addition, the Authority Having Jurisdiction may have additional maintenance, testing, and inspection requirements that must be followed.

WARNING: ANY SYSTEM MAINTENANCE THAT REQUIRES PLACING A CONTROL VALVE OR DETECTION SYSTEM OUT OF SERVICE MAY ELIMINATE THE FIRE PROTECTION CAPABILITIES OF THAT SYSTEM. PRIOR TO PROCEEDING, NOTIFY ALL AUTHORITIES HAVING JURISDICTION. CONSIDERATION SHOULD BE GIVEN TO EMPLOYMENT OF A FIRE PATROL IN THE AFFECTED AREAS.

I. Tests

A. Prior to proceeding with tests:

- 1. Verify that installation complies with instructions in the Owner's Manual provided with the panel and the appropriate VIKING FIELD WIRING DIAGRAMS for the system used.
- 2. Notify the Authority Having Jurisdiction and all those in the area affected by the test.

B. Alarm Activate Switch

- To test alarm bell, waterflow bell circuits and alarm, detection, and waterflow relays:
- 1. Push "Alarm Activate" (See Figure 1). Note: "Alarm Activate" is a latching function. "Alarm Silence" will silence indicating circuits and System Alarm Relay and light the Alarm Silenced LED.
- 2. When test is complete, push "System Reset". Conditions should return to normal.

C. Waterflow

To test waterflow alarm on Viking pre-action and Viking deluge systems, consult technical literature for the system used:

- 1. Turn the Alarm Test Valve to "Test" position. See Table 2 for output circuits and relays that should activate for the system used. "Waterflow" circuits are latching.
- 2. When test is complete return the Alarm Test Valve to the normal position and push "System Reset". Conditions should return to normal.

C. Detection

To test detection circuits:

1. Close main water supply control valve, placing the system out of service.

CAUTION! FOR DELUGE AND SINGLE OR NON-INTERLOCKED PREACTION SYSTEMS, PERFORMING THIS TEST RESULTS IN OPERATION OF THE DELUGE VALVE. FAILURE TO CLOSE THE MAIN WATER SUPPLY CONTROL VALVE WILL CAUSE WATER TO FLOW INTO THE SPRINKLER PIPING.

CAUTION! FOR DOUBLE-INTERLOCKED SYSTEMS, SIMULTANEOUS OPERATION OF A DETECTOR AND LOWERING OF SUPER-VISORY PRESSURE IN THE SPRINKLER PIPING WILL RESULT IN OPERATION OF THE DELUGE VALVE. FAILURE TO CLOSE THE MAIN WATER SUPPLY CONTROL VALVE WILL CAUSE WATER TO FLOW INTO THE SPRINKLER PIPING.



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Telephone: 269-945-9501 Technical Services 877-384-5464 Fax: 269-945-4495 Email: techsvcs@vikingcorp.com CAUTION! SIMULTANEOUS OPERATION OF BOTH DETECTION CIRCUITS ON ANY SYSTEM UTILIZING CROSS-ZONE DETECTION WILL RESULT IN OPERATION OF THE DELUGE VALVE. FAILURE TO CLOSE THE MAIN WATER SUPPLY CONTROL VALVE WILL CAUSE WATER TO FLOW INTO THE SPRINKLER PIPING.

- 2. Operate individual detectors, following instructions listed in technical data for the detector used. See Figure 2 for output circuits and relays that should activate for the system used. "Detection" circuits are latching (except when configured for optional "timed shut-off". See Owner's Manual).
- 3. When Test is complete, push "System Reset". Conditions should return to normal.
- 4. Refer to technical data for the system used to open main water supply control valve and place the system back in service.

II. Maintenance

CAUTION: DISCONNECT ALL POWER SOURCES BEFORE SERVICING. THE PANEL AND ASSOCIATED EQUIPMENT MAY BE DAM-AGED BY REMOVING AND/OR INSERTING CARDS, MODULES, OR INTERCONNECTING CABLES WHILE THE PANEL IS ENER-GIZED.

7. AVAILABILITY

The Viking Model B-1 Release Control Panel is available through a network of domestic and international distributors. See the Viking Corp. Web site for closest distributor or contact The Viking Corporation.

8. GUARANTEES

For details of warranty, refer to Viking's current list price schedule or contact Viking directly.

Table 1 - Part Numbers and Approvals					
Name	Power Supply	Approvals	Viking Part No.		
Par-3	110 VAC 50/60Hz	UL ¹ , FM, NYC ³ and CSFM ⁴	07907		
Par-3C	110 VAC 50/60Hz	cUL ²	07953		
Par-3E	220 VAC 50/60Hz	FM	07908		
¹ UL listed Releasing Device Control Unit (UOJZ)					
² cUL and CSA approved Par-3C					
³ Accepted by New York City Department of Buildings (MEA 89-92-E) when configured for Single Hazard-Two Zone operation (See Figure 1) and equipped with LED Interface Module (4XLM) and Remote Annuncitor					

(RZA-4X) See ACCESSORIES

⁴ Listed by the California State Fire Marshall (7770-0533:105)

3

4

5

WATERFLOW

SUPERVISORY

ALARM ACTIVATE SWITCH

x

x x

x x

X

X

x x

х

х



RELEASE CONTROL PANEL MODEL B-1

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Table 2 - Dip Switch Settings for System Configuration Modes									
			DIP SWITCH SETTINGS						
MODE	DESCRIPTION	CONFIGURATION	OPERATION	1	2	3	4	5	6
1	Single Hazard - Two Zone	One release circuit. Two detection circuits.	Activation of EITHER detection cir- cuit energizes the release circuit.	OFF	OFF	OFF	OFF	OFF	
2	Single Hazard - Cross Zone	One release circuit. Two detection circuits.	BOTH detection circuits must activate to energize the release circuit.	ON	OFF	OFF	OFF	OFF	NO.
3	Dual Hazard - Combined Release	Two release circuits. Two detection circuits.	Activation of EITHER detection circuit energizes BOTH release cir- cuits.	OFF	ON	OFF	OFF	OFF	T US
4	Dual Hazard - Split Release	Two release circuits. Two detection circuits.	Activation of detection circuit No. 1 energizes release circuit No. 1 Activation of detection circuit No. 2 energizes release circuit No. 2	ON	ON	OFF	OFF	OFF	D
			chergizes release circuit no. z						

Note: Dip Switches 3, 4 and 5 MUST be OFF to disable timer capabilities of the panel. For information concerning timer capabilities, refer to PAR-3 Owners Manual. Also, refer to installation standards, Technical Data, and all Authorities Having Jurisdiction when using timer configurations.

Table 3 - Charts show Output and Relay Module Circuits Activated by Detection Circuits DUTPUT CIRCUITS RELAY MODULE DUTPUT CIRCUITS RELAY MODULE MODE 3 MODE 1 HDRN HDRN RELAY RELAY DUAL HAZARD SOLENDID SOLENDID SINGLE HAZARD RELAY RELAY SOLENDID RELAY RELAY BELL TROUBLE TROUBLE RELAY RELAY RELAY RELAY COMBINED RELAY TWO ZONE RELAY RELAY SUPERVISORY RELAY SUPERVISOR BELL ERFLOW BELL N WATERFLOW **FECTION** RELEASE EASE RELEASE RELEASE RELEASE **FROUBLE** TROUBLE RELEASE **IRDUBLE** RELEASE REMOTE ш ALARM I ALARM ALARM ALARM ALARM ALARM REM RDU REL INPUT CIRCUITS INPUT CIRCUITS x DETECTOR CIRCUIT 1 x X х 1 X х X DETECTOR CIRCUIT 1 X X X X X X X × x 2 DETECTOR CIRCUIT 2 X х x X х 2 DETECTOR CIRCUIT 2 х х X X Х х Х х Х Х 3 WATERFLOW X 3 WATERFLOW X Х X X х х X х Х X SUPERVISORY 4 X X X SUPERVISORY X X X 4 X X X x X x 5 X X 5 ALARM ACTIVATE SWITCH X ALARM ACTIVATE SWITCH X X X DUTPUT CIRCUITS RELAY MODULE DUTPUT CIRCUITS RELAY MODULE HDRN HDRN MODE 2 MODE 4 RELAY RELAY SOLENDID RELAY SOLENDID SOLENDID RELAY SINGLE HAZARD RELAY RELAY DUAL HAZARD RELAY BELL TROUBLE TROUBLE RELAY RELAY RELAY RELAY RELAY SPLIT RELEASE RELAY RELAY CROSS ZONE RELAY RELAY SUPERVISORY SUPERVISORY BELL BELL N WATERFLOW WATERFLOW -DETECTION RELEASE TROUBLE **TROUBLE** RELEASE RELEASE TROUBLE RELEASE RELEASE *TRDUBLE* RELEASE REMOTE REMOTE ALARM ALARM ALARM ALARM ALARM ALARM ALARM INPUT CIRCUITS INPUT CIRCUITS x DETECTOR CIRCUIT 1 х х x Х X 1 DETECTOR CIRCUIT 1 X X X 1 х x X х X BUTH BUTH 2 DETECTOR CIRCUIT 2 X х х х X x 2 DETECTOR CIRCUIT 2 х x х х х х х Х

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WATERFLOW

SUPERVISORY

ALARM ACTIVATE SWITCH

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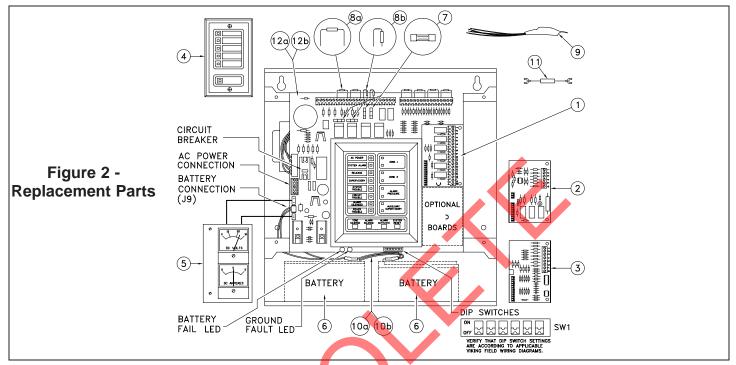
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	NOTES		
1	07912	Zone Relay Module 4XZM (Included with Panel) ¹	1	Optional ¹		
2	07909	Transmitter Module 4XTM	1	Optional		
3		LED Interface Module 4XLM	1	Optional		
4	07911	Remote Annunciator Module RZA-4X	1	Optional		
5	07917	Voltage, Current Meters 4XMM	1	Optional		
-	07920	Battery, 12V, 7 Amp Hr. Capacity ² OR	2			
6	07921	Battery, 12V, 12 Amp Hr. Capacity ² OR	2	Two Batteries Required ²		
	09867	Battery, 12V, 18 Amp Hr. Capacity ²	2			
	09866	Battery Box, Required when using 18 AH Batteries				
7	07915	Fuses, 4 Amp	4	Included		
8a	07914	Resistor, Dummy Load (Notifier 71245)	6	Included		
8b	08391	Resistor, Dummy Load (Notifier 27072)	2	Included		
9	07919	Power Relay	1	Optional		
10a		Battery Plug Wire Ass'y (7 Amp Battery)	1	Included		
10b	08285	Battery Plug Wire Ass'y (12 Amp Battery)	1	Included		
11	07913	Resistor, End-of-Line (Notifier 71252)	1	Optional		
12a	08389	Mother Board 110 Volt ³	1	Included ³		
12b	08390	Mother Board 220 Volt ³	1	Included ³		

-- Indicates replacement part not available

¹This unit can support a second Zone Relay Module 4XZM in addition to the one included with the panel.

²Always use two batteries of the same amperage. Order batteries separately after performing power calculations

to determine size of battery required to meet standby requirements.

³Voltage of AC Power Supply determines voltage of Mother Board required.