

# SUPPLEMENT TO THE PAR-3 MANUAL

## TROUBLE SHOOTING GUIDE

### DOCUMENT 50627, REV. A, ECN 96-433

SYMPTOM		PROBLEM		SOLUTION	
AC Power LED on	System trouble LED on	Circuit trouble LED on	Notification appliance circuit trouble	<ol style="list-style-type: none"> <li>1. Check TB2 for proper connections.</li> <li>2. Remove all field wiring and install dummy ELR at output circuit. Check for supervisory voltage across it, (Normal -2.3 V), if problem persists, replace circuit board.</li> <li>3. Removed dummy ELR, reconnect field wiring and measure voltage across output; (trouble -5V, short 0V).</li> <li>4. Check for ELR at last device.</li> <li>5. Check field wiring.</li> </ol>	
		Any of the right column yellow LEDs flashing	Initiating zone open circuit trouble	<ol style="list-style-type: none"> <li>1. Check TB4 for proper connections.</li> <li>2. Remove field wiring for zone in trouble and install dummy ELR (4.7K for 24V; 2.2K for 12V). If problem persists, replace circuit board.</li> <li>3. Check for ELR at last device.</li> <li>4. Check field wiring.</li> </ol>	
		Any of the right column yellow LEDs steady on	Zone disable	1. Check installation manual.	
		Power trouble LED on	Battery trouble Batt yellow LED on	Missing or Disconnected	1. Check battery connections.
				Low or damage battery	<ol style="list-style-type: none"> <li>1. Remove batteries, check voltage across charger output (17 to 19V for 24V; 8-10V for 12V), otherwise replace circuit board.</li> <li>2. Reconnect batteries, measure battery voltage at battery terminals. If voltage is less than 85% of rated voltage, allow them to charge for 48 hours.</li> <li>3. If problem persists, replace batteries.</li> </ol>
	Yellow LED on 4XTM on	Ground fault trouble Earth yellow LED on		<ol style="list-style-type: none"> <li>1. Remove field wiring from main panel and optional module(s) (if installed). Install dummy ELR (4.7K for 24V; 2.2K for 12V).</li> <li>2. Remove both battery leads.</li> <li>3. If trouble clears, connect one circuit at the time to pin point the problem.</li> <li>4. If trouble doesn't clear, replace circuit board.</li> </ol>	
			4XTM	1. Move Municipal Box disconnect switch SW1 up.	
		OPT1, OPT2 jumper cut	1. Install optional module(s) or replace jumper if module(s) is not used.		
		Municipal Box open circuit	<ol style="list-style-type: none"> <li>1. Install dummy load if Municipal Box option isn't used.</li> <li>2. Check Municipal Box wiring.</li> </ol>		
	Any of the right column red LEDs on	Short on initiating circuit wiring	1. Remove field wiring and install ELR. If trouble clears, look for faulty or incorrectly wired devices.		
	Disconnecting Municipal Box switch on 4XTM does not create a trouble	Jumper for optional modules isn't cut	1. Cut associated jumper OPT1 or OPT2.		
	4XZM: associated LED doesn't activate for alarm, trouble or supervisory conditions	Optional module trouble	<ol style="list-style-type: none"> <li>1. Make sure module is properly installed.</li> <li>2. Move disable switch SW1 on 4XZM to the left.</li> </ol>		
	RZA-4X piezo doesn't sound for alarm, trouble or supervisory conditions	4XLM	<ol style="list-style-type: none"> <li>1. Make sure that 4XLM module is installed on J7 and J8.</li> <li>2. Check field wiring.</li> </ol>		
	Micro Fail yellow LED on	Microprocessor damaged	1. Replace circuit board.		
	All RZA-4X LEDs stay on	Power wasn't removed prior installation	1. Hit system reset.		
AC Power LED off	System trouble LED on	Loss of main power	1. Check incoming power (TB5).		
		Damaged circuit breaker	1. Replace circuit board.		
	Micro Fail yellow LED on	Microprocessor damaged	1. Replace circuit board.		