

SERVICE MANUAL BULLETIN

This Service Manual Bulletin is prepared by the Publications Department of New Flyer Industries Canada ULC. Refer to details below.

SMB-123B

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APPLICABILITY					
VEHICLE LENGTH	□ 30ft.	□ 35ft.	□ 40ft.	□ 60ft.	■ ALL
VEHICLE TYPE	☐ High Floor	□ Low Floor	□ Invero	☐ Xcelsior	■ ALL
FUEL TYPE	□ Diesel	□ Electric	□ CNG	□ LNG	■ ALL
	☐ Diesel/Electric	☐ Gas/Electric	☐ Fuel Cell		
SUBJECT	Amerex Fire Supp	pression & Gas De	etection Syste	ems	
SECTION TITLE	PM - PREVENTIVI	E MAINTENANCE			
INITIAL DETAILS	This bulletin has been issued to raise Operator awareness of the scheduled preventive maintenance activities necessary to support both the Amerex Fire Suppression and Gas Detection Systems used on your New Flyer vehicle. This information supersedes all prior information on this subject already provided in your New Flyer Manuals. Make this Service Bulletin available to service personnel to inform them of changed information.				
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1. Amerex Fire Suppression & Gas Detection Systems

1.1. Purpose

This bulletin is issued to ensure that all users are aware of the preventive maintenance requirements necessary to support the Fire Suppression and Gas Detection Systems. The preventive maintenance schedule covers the following Amerex Systems:

- ☐ Modular III Fire Suppression Amerex Manual Number 13980, and Number 19680
- ☐ Amerex Vehicle Safety Net (AVSN) Fire Suppression Amerex Manual Number 13980, and if equipped with optical sensors, Number 16601.
- AMGaDS Fire Suppression & Gas Detection Amerex Manual Number 14475.

Amerex Vehicle Safety Net (AVSN) Gas Detection - Amerex Manual Number 16601.

1.2. Preventive Maintenance

™NOTE:

Amerex manuals must be used in conjunction with the basic information contained within this Bulletin to fully comply with all preventive maintenance requirements.

1.2.1. Preventive Maintenance Schedule

The following table provides an overview of the scheduled maintenance intervals and the systems affected. Refer to the specific maintenance interval and applicable Amerex manual(s) associated with each system for detailed maintenance requirements.

PREVENTIVE MAINTENANCE SCHEDULE						
DAILY	MONTHLY	SIX MONTHS	THREE YEARS	SIX YEARS		
Modular III Fire Suppression System	Modular III Fire Suppression System	Modular III Fire Suppression System	Modular III Fire Suppression System	Modular III Fire Suppression System		
AVSN Fire Suppression System	AVSN Fire Suppression System	AVSN Fire Suppression System	AVSN Fire Suppression System	AVSN Fire Suppression System		
AMGaDS Fire Suppression System	AVSN Gas Detection System	AVSN Gas Detection System		AMGaDS Fire Suppression System		
	AMGaDS Fire Suppression System	AMGaDS Fire Suppression & Gas Detection System				

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1.3. Daily Preventive Maintenance

1.3.1. Modular III Fire Suppression System

Check the operational status of the fire suppression system on a daily basis:

- ☐ Inspect the control panel and confirm that the SYSTEM OK green LED is illuminated.
- ☐ Confirm that the FIRE, RELAY RESET, and SERVICE SYSTEM LED's are extinguished

™NOTE:

DO NOT operate the vehicle if either the FIRE, RELAY RESET, or SERVICE SYSTEM LED's are illuminated. Contact service personnel to investigate the cause.

1.3.2. AVSN Fire Suppression System

Check the operational status of the fire suppression system on a daily basis. Set

- the Master Run switch to DAY-RUN and observe the display panel for the following:
- ☐ The display should read "System OK" immediately following self-configuration.
- Confirm that the system POWER green LED is illuminated.
- ☐ Confirm that both the FIRE red LED and TROUBLE yellow LED are extinguished.
- ☐ Confirm that both GAS CONCENTRATION LED's (if equipped) are extinguished.
- Confirm that the RELAY RESET red LED is extinguished

™NOTE:

DO NOT operate the vehicle if any of the red or yellow LED's are illuminated. Contact service personnel to investigate the cause.



1.4. Monthly Preventive Maintenance

1.4.1. Modular III or AVSN Fire Suppression System

- Open access door behind streetside rear light panel to access gauge. See "Fig. 1: Fire Suppression Cylinder Inspection" on page 3.
- ☐ Check pressure gauge on agent cylinder to ensure it is in the operating (green) range.
- ☐ Check all nameplates and instructional labels for legibility.
- Check physical condition of all components for mechanical damage and security of mounting.
- ☐ Check nozzles of agent cylinder. Nozzle outlets must be free of obstructions. Blow-off caps must be intact and secure.
- ☐ Ensure pull pin on manual actuator is in place.
- ☐ Test the alarm and LED functions by pressing the diamond-shaped "PRESS TO TEST" button on the face of the control panel. The alarm should sound and all LED's should illuminate.

™NOTE:

The "Push to Test" function will not cause a system discharge.

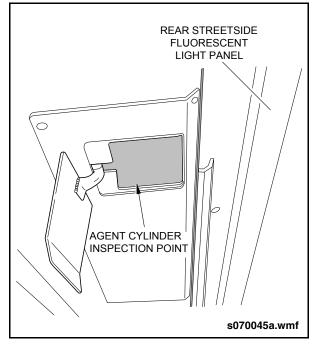


Fig. 1: Fire Suppression Cylinder Inspection

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1.5. Six Month Preventive Maintenance

1.5.1. Modular III or AVSN Fire Suppression System (without gas detection)

Perform the following inspections and servicing procedures every six months:

™NOTE:

Refer to Amerex Installation, Operation, and Maintenance Manuals No. 13980 and 16601 for specific requirements and procedures

aures
Visually inspect condition of all fire suppression components.
Service the agent cylinder(s).
Service the discharge valve.
Inspect pressure gauge on discharge valve.
Service the discharge network.
Confirm that all nozzles are properly aimed and all blow-off caps are installed.
Service the distribution system components.
Service and test the detection network.
Test the agent cylinder pressure switch circuit.
Test the backup battery function.
Inspection condition of wiring and connectors.

☐ Check last recharge date on agent cylinder

☐ Inspect and test Safe-IR Optical Flame

Detectors (infrared sensors), if equipped.

inspection tag.

1.5.2. AVSN Fire Suppression & Gas Detection System

Perform the following inspections and servicing procedures on the fire suppression system every six months:

™NOTE:

Refer to Amerex Installation, Operation, and Maintenance Manuals No. 13980 and 16601 for specific requirements and procedures

dares
Visually inspect condition of all fire suppression components.
Service the agent cylinder(s).
Service the discharge valve.
Inspect pressure gauge on discharge valve.
Service the discharge network.
Confirm that all nozzles are properly aimed and all blow-off caps are installed.
Service the distribution system components.
Service and test the detection network.
Test the agent cylinder pressure switch circuit.
Test the backup battery function.
Inspection condition of wiring and connectors.
Check last recharge date on agent cylinder inspection tag.
Inspect and test Safe-IR Optical Flame Detectors (infrared sensors), if equipped.
Inspect and test the gas sensors every six

™NOTE:

months.

Refer to Amerex Installation, Operation, and Maintenance Manual No. 16601 for specific requirements and procedures



1.6. Three Year Preventive Maintenance

1.6.1. Modular III Fire Suppression System

Replace the backup battery located inside the fire suppression control panel every three years. See "Fig. 2: Battery Replacement Location" on page 5.

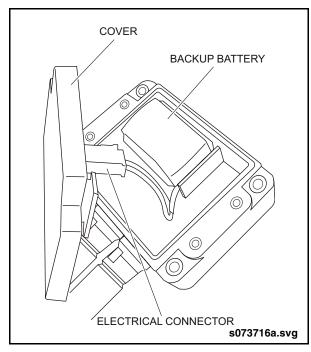


Fig. 2: Battery Replacement Location

1.6.2. AVSN Fire Suppression System

Replace the backup battery located inside the fire suppression Driver Panel every three years.

- 1. Set the Battery Disconnect swtich to the OFF position.
- Remove the access panel directly above the driver's side window.
- 3. Disconnect electrcal harnesses from the Driver Panel.
- 4. Remove the four screws that mount the Driver Panel to the mounting bracket.
- 5. Access the backside of the Driver Panel and remove the four cover screws.
- 6. Remove backup battery.
- 7. Installation is the reverse of removal.

1.7. Six Year Preventive Maintenance

1.7.1. Modular III or AVSN Fire Suppression System

Replace the electric actuator, located on the discharge valve, following every six years of service.

™NOTE:

Refer to Amerex Installation, Operation, and Maintenance Manual No. 16601 for specific requirements and procedures.