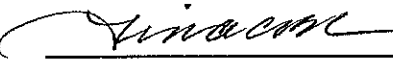




SERVICE LETTER

Service Letter Number	Simplex Model	Issue Date	Revision	Revision Date
SL2009-015	See Table 1	March 17, 2010	I/R	March 17, 2010

Written By: 
 Tina Bliss
 Engineering

Approved By: 
 Stan Franz
 Director of Engineering

Subject: DC Electric Hover Refill Pump Recommended Maintenance Schedule

Applicability: This service letter is applicable to Simplex Manufacturing Fire Attack Systems as stated in Table 1.

Table 1 Fire Attack Applicability

Fire Attack System Model	Hover Pump Assembly	Pump	Rotorcraft Series
304 (3-door)	300-704014-001	300-704015-001	Bell 205A-1, 205B, 212,412,AB412,412EP & UH-1
326	326-704014-301	300-704015-001	Agusta AW139
326	326-704014-303	300-704015-001	Agusta AW139
326	326-704014-305	300-704015-001	Agusta AW139

NOTE: *The information contained in this document is for reference only and does not supersede the service instructions contained in the respective Maintenance Manuals (MM) or Instructions for Continued Airworthiness (ICA).*

Purpose: This document was drafted to recommend annual Hover Refill Pump (HRP) maintenance and 1500 hour overhaul to ensure peak performance and reduce unscheduled maintenance during periods of heavy use.

Compliance: Compliance of this service letter is recommended prior to heavy seasonal use on systems that are more than 18 months since new or with more than 300 hours time in service on the hover refill pump and every year or 300 hours thereafter for annual maintenance and complete assembly overhaul every 5 years or 1500 hours of hover pump use, whichever comes first.



References:

1. Simplex System Manuals ICA or MM. XXX-102005-001 or later (XXX represents specific FAS model number) consult Simplex Manufacturing for latest revision information.

Parts:

A list of customer replaceable parts is included in Table 2 for hover refill pump inspections. Replacement parts and equipment may be ordered through your local authorized Simplex Representative or directly from Simplex Manufacturing.

Table 2: Parts

Overhaul Parts			
FAS Model	Part Number	Description	Quantity
304, 326	300-704015-001	5" MTH Pump	1
304, 326	000-126406-000	5" Hose	120"
326	000-126406-000	5" Hose	144"
326	000-126802-001	5" Hose, 150 Psi	144"
304, 326	000-115337-000	5" Clamp	2
304, 326	000-107549-000	Cable Tie	12
326	326-704013-501	Safety Cable Assembly	1
326	326-704009-001	Shear Plate	3
326	326-501005-301	Harness, Electrical	1

Equipment:

1. Standard Mechanics tools
2. Shop rags
3. Suitable work surface

Consumables:

1. Corrosion Inhibitor MIL-C-16173-D grade 4 or equivalent
2. 000-159100-000 732 Sealant
3. NLGI-2 Lithium Grease or equivalent
4. MIL-PRF-907-F Anti-Seize Lubricant or equivalent

Weight and Balance:

No effect.

Electrical Loads:

No effect.

Annual (300 Hour) Procedure:

1. Review rotorcraft log books and determine date of initial installation, hours in service, and time in service of Fire Attack System with hover pump installed.
2. Perform inspection and maintenance as described in Table 3.
3. Alternately the customer may choose to return the hover refill pump to Simplex Manufacturing for servicing.
4. Allow 24 hours for 732 Sealant to dry if used.
5. Test for water tightness by completely submerging pump assembly in water and looking for air bubbles. Investigate source of any leak and seal with 732 sealant or replace seal as required.

Table 3: Annual (300 Hour) Inspection Procedure

ANNUAL INSPECTION and MAINTENANCE (1-year or 300 hours) Initial each item after accomplishment. Record all findings and attach a copy of this inspection form to maintenance records. Sign off inspection when complete.							
Serial No.	_____ (FAS) _____ (HRP)	Total System Time	_____	HRP Time	_____	Date	_____
1	PRE INSPECTION REQUIREMENTS						INITIAL
	Review maintenance records and determine time in service and hours of operation of the Hover Refill Pump.						
2	HOVER PUMP ASSEMBLY (AC ELECTRIC)						INITIAL
	ACCESS REQUIREMENTS: Remove Hover Refill Pump Assembly (HRP) from rotorcraft. Clean and flush HRP and hose with fresh water. Remove hose from pump for inspection of safety cable, retain usable hardware.						
	INSPECTION: Inspect all attachment fittings and connections for proper operation and condition. Check for signs of stress or corrosion. Check condition of electrical harness and connections. Check condition of safety support cable attachment and shear provisions, both ends. Inspect support cable. Replace if evidence of worn spots or broken strands is found.						
	MAINTENANCE: Hose must be replaced if worn through 50% of wall. Replace electric harnesses that contain burnt or broken wires or worn insulation. Coat aluminum fittings with corrosion inhibitor MIL-C- 16173-D grade 4. Replace damaged or missing cable ties and hose clamps. Replace damaged or missing shear provisions or safety cable. Clean pump screen						



ANNUAL INSPECTION and MAINTENANCE (1-year or 300 hours)

Initial each item after accomplishment.

Record all findings and attach a copy of this inspection form to maintenance records.

Sign off inspection when complete.

3	RETURN TO SERVICE	INITIAL
	ASSEMBLE Reattach hose to pump with retained hardware. Connect cam-lock fittings at hose end and secure with safety wire or wire ties. Torque hose clamps uniformly to 14.5 ft-lbs. Verify all hardware is intact and torqued as required in ICA. Seal all hose and pump seams with 732 Sealant.	
	INSTALL: Install HRP assembly per ICA as desired.	
	POST INSPECTION: Verify operation of pump. Check for water tightness. Make the appropriate logbook entries and return to service.	
Performed By: _____ Signature: _____ No.: _____		
Inspected By: _____ Signature: _____ No.: _____		



1500 Hour (5-year) Procedure:

1. Review rotorcraft log books and determine date of initial installation, hours in service, and time in service of Fire Attack System.
2. Perform inspection and maintenance as described in Table 4.

Table 4: Overhaul 5-year (1500 hour) Procedure

OVERHAUL or 5-YEAR PROCEDURE (5-years or 1500-Hours)							
Initial each item after accomplishment.							
Record all findings and attach a copy of this inspection form to maintenance records.							
Sign off inspection when complete.							
Serial No.	_____ (FAS) _____ (HRP)	Total System Time	_____	HRP Time	_____	Date	_____
1	PRE INSPECTION REQUIREMENTS						INITIAL
	Review maintenance records and determine time in service and hours of operation of the Hover Refill Pump.						
2	HOVER PUMP ASSEMBLY (AC ELECTRIC)						INITIAL
	ACCESS REQUIREMENTS: Remove Hover Refill Pump (HRP) and hose assembly from rotorcraft.						
	INSPECTION: Inspect all tank interface connections for proper operation and condition. Perform scheduled maintenance on hover refill elbow as specified in ICA.						
	MAINTENANCE: Return HRP assembly to Simplex Manufacturing for overhaul or replacement. Reinstall new or overhauled pump assembly.						
3	RETURN TO SERVICE						INITIAL
	INSTALL: Install HRP assembly per ICA.						
	POST INSPECTION: Make the appropriate logbook entries and return to service.						
Performed By: _____ Signature: _____ No.: _____							
Inspected By: _____ Signature: _____ No.: _____							

