

Section 9**Supplement S12**

to the
Flight Manual for the aircraft
STEMME ASP S15-1

Hand Fire Extinguisher A344T

If the aircraft STEMME ASP S15-1 is equipped with a hand fire extinguisher A344T, this supplement has to be applied and must be inserted to chapter 9 of the Flight Manual.

The information and instructions of this supplement extend or substitute partially the contents of the basic Aircraft Flight Manual where applicable.

Revision nr. -- to supplement ref. K400-911611 "S12 - Hand Fire Extinguisher A344T" is approved under the authority of DOA ref. EASA.21J.250.

03 JAN 2018

Date:

0.2 List of Effective Pages and Chapters

This list is only valid for the supplement in hand.

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1. General

1.1 Introduction

This supplement contains information and instructions for the aircraft STEMME ASP S15-1 equipped with a hand fire extinguisher.

This supplement extends the contents of the relevant sections 1 to 8 of the basic Flight Manual by additional limitations and information if operated with a hand fire extinguisher.

For further information of system details and maintenance procedures refer to manual of the hand fire extinguisher.

1.4 Dimensions and Specifications

Structure	Design	Special mounting for hand fire extinguisher A344T Halon-based hand fire extinguisher
	Attachment to Cockpit wall	The mounting bracket for the fire extinguisher is fixed to the left hand cockpit wall on three mounting points
Approved Design Spec.	Assembly P/N	STEMME P/N 350721

For design and installation refer to chapter 3 of this Flight Manual supplement.

2. Operating Limitations _____

Warning: Do not operate aircraft with installed hand fire extinguisher if temperature exceeds the range between -54°C and 49°C (between -65°F and 120°F). If temperature range will be exceeded while aircraft is on ground it is recommended to remove the fire extinguisher from the aircraft.

Warning: Recharge immediately after ANY use. Partial discharge may cause fire extinguisher to leak.

Warning: The A344T hand fire extinguisher is for emergency use only. It contains halon-based extinguishing agent. It has a toxic effect if portion is >4% of the available volume.

3. Emergency Procedures

3.10 Fire

1. Release mounting bracket clamp upwards and pull out the hand fire extinguisher from the mounting bracket.
2. If possible, keep a distance of 9-12' to the source of fire.
3. Hold hand fire extinguisher upright by the handle.
Pull securing pin firmly by gripping the attached ring.
4. Point to source of fire, push the trigger. Swivel slightly horizontally while extinguishing. Fire extinguisher discharges after 10 sec.

- (1) vessel containing extinguisher agent
- (2) type label with handling and service instructions
- (3) handle
- (4) nozzle
- (5) ring with locking pin
- (6) tag with safety wire
- (7) trigger
- (8) pressure gauge
- (9) bracket with locking belt

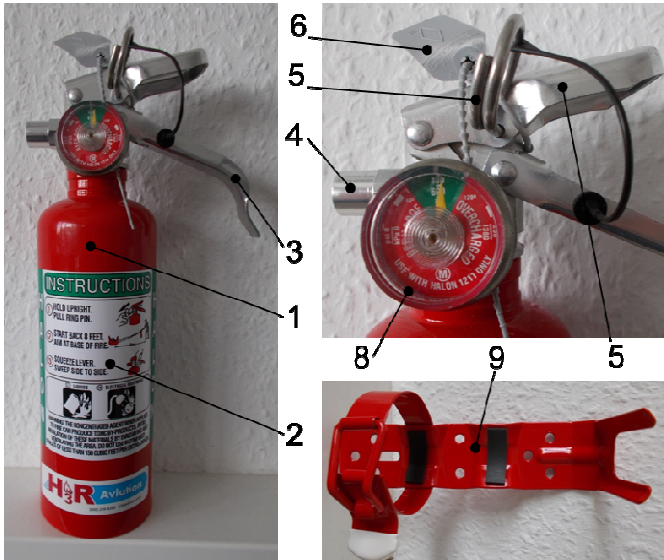


Figure 1:
Main parts of the fire extinguisher

Warning: If the hand fire-extinguisher is activated unintentionally, open all ventilation widely. Halon displaces oxygen and has a toxic effect. Consider emergency landing or landing on next airfield if you seem to feel numb, dizzy or unharmed in coordination.

4. Normal Operating Procedures _____

4.5 Daily Inspection

The pilot-in-command has to perform an accurate visual inspection of hand fire extinguisher (if installed) in addition to the standard daily inspection of the entire aircraft according to chapter 4.5 (basic Flight Manual) before commencing of flight operations.

Warning: Flight-readiness must be checked accurately after the A/C has been rigged or prior to the first flight of the day. Not performing this check, or doing the check carelessly, could result in loss of extinguishing performance or critical failure of the pressure vessel!

- | | |
|----------------------------|---|
| 1. extinguisher and vessel | CHECK VISUALLY for condition
(no obvious damage, corrosion, leakage)

CHECK pin
(lock pin and tamper seal must be in place) |
| 2. assembly | CHECK VISUALLY for damage and fix
mounting |

4.6 Pre-Flight Inspection

The pre-flight inspection for the fire extinguisher system (if installed) has to be performed as external inspection in addition to the standard pre-flight inspection of the entire A/C as described in chapter 4.6 (basic Flight Manual).

Check to perform: CHECK if fire extinguisher is installed and fixed properly and safe

Warning: Do not operate aircraft with installed hand fire extinguisher if temperature exceeds the range between -54°C and 48,9°C (between -65°F and 120°F). If temperature range will be exceeded while aircraft is on ground it is recommended to remove the fire extinguisher from the aircraft.

5. Flight Performance _____

- No change to basic Flight Manual. -

6. Mass and Balance / Equipment _____

6.4 Operating Mass and Operating CG

The installation of the components of the hand fire extinguisher in the ASP S15-1, is taken into account through the empty weight and balance report of chapter 6.4 of the basic Flight manual.

6.5 Equipment List and Installed Equipment List

The installed hand fire extinguisher is part of the Equipment List of the basic Flight Manual, Section 6.5.

7. System Description of Hand-Fire-Extinguisher _____

For a detailed description of handling and design of the fire extinguisher see chapter 3.

The A344T is a rechargeable hand fire extinguisher for aircrafts.
It contains the halon agent 1211.

The hand fire extinguisher is attached to the L/H cockpit wall by a mounting bracket (s. chapter 3).

The hand fire extinguisher cannot be tested. Therefore (s. chapter 8) regular inspections have to ensure operational readiness of the system.

8. Handling, Maintenance and Service _____

8.2 Maintenance Intervals of the Aircraft

According to FAA AC 20-42D – “Hand Fire Extinguishers for Use in Aircraft” the maintenance and inspection of the device has to be done according to the manufacturers guidelines.

If the periodical inspection leads to a fault finding, the hand fire extinguisher must be returned to the manufacturer H3R Aviation or an approved dealer for fire safety equipment. The halon extinguisher agent has to be recycled.

For scheduled inspection conform to Maintenance Manual STEMME ASP S15-1 (STEMME doc.no. K500-911962).

For annual inspection conform to Maintenance Manual STEMME ASP S15-1 (STEMME doc.no. K500-911962).

Caution: Unscheduled inspection is necessary after: frequent high altitude flights, frequent big temperature changes or if the temperature limits of the device have been approached or reached. In this case weigh the fire extinguisher, the mass difference must not be > 60g (>2 oz) from initial weight on record tag.