

Beech Aircraft Corporation

# OVERHAUL SPECIFICATION

FIRE EXTINGUISHER INSTALLATION - MODEL SNB-5

OVERHAUL SPECIFICATION 5712

ISSUED August 7, 1951

REVISED \_\_\_\_\_

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1. SCOPE

1.1 Purpose.- The purpose of this specification is to authorize the use of reconditioned parts and provide reconditioning instructions for component parts of the 794-183150 fire extinguisher installation, the 84-183180, 784-183180 and 189450P fuselage, wing and engine compartment fire extinguisher lines, installations and instructions for modifications required to adapt them for installation in Model SNB-5 aircraft in accordance with Drawings 894-183185 and 189450P.

1.2 Pages and Revisions.- This specification consists of the pages listed below. An asterisk (\*) denotes pages revised at the current revision.

<u>Page</u>	<u>Date</u>	<u>Description of Revision</u>	<u>Serial Effectivity</u>
1	8-7-53		
2	8-7-53		
3	8-7-53		
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2. **APPLICABLE PUBLICATIONS**

2.1 Beech.-

FB 302 Finish Specifications for Model SNB-5  
FB 398A Thread Lubricants  
OB 7002 Cleaning Procedures for Reconditioned Aircraft

2.2 Federal.-

QQ-P-416 Cadmium Plating

2.3 Air Force - Navy.-

AND-10375 Color Code Specification

3. **REQUIREMENTS**

3.1 Parts Involved:

3.1.1 Parts to be Scrapped.- All parts called out on Drawings 84-183180, 784-183180, 894-183180, and 189450P are to be scrapped except those listed in Paragraph 3.1.2

3.1.2 Parts to be Reconditioned.- The following parts are to be reconditioned in accordance with the instructions listed below. "Reconditioned" means the disassembly, cleaning, inspection, and correction of discrepancies, and/or replacement of components to assure an operationally safe and serviceable aircraft, and modifications to incorporate specific improvement changes as specified by applicable drawings.

981557 (or equivalent) Cylinder and valve assembly  
20400 Pulley  
933583 Pulley

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3.1.2 Parts to be Reconditioned.- (Continued)

41A4178	Indicator	
27082	Control panel	Either assembly may be used
919475	Control panel	
734-183182	Support assembly	
183183P	Support assembly	
8PNT	Plug	
189460P-2	Clamp	
894-183191	Tube assembly	

3.1.3 Parts to be Installed New.- All parts called out on Drawings 894-183185 and 189450P that are not listed in Paragraph 3.1.2 are to be supplied new.

3.2 Cause for Rejection.- The specific conditions listed below and other conditions which cannot be repaired by one or more of the authorized repairs listed herein will be cause for rejection.

3.2.1 Cylinder and Valve Assembly 981557.-

- (a) Cylinders that are not the wire-wrapped non-shatterable type.
- (b) Cylinders dented in excess of 1/8 inch.
- (c) Cylinders having broken or frayed wire wrappings.
- (d) Cylinders corroded on the inside or which have an excessive amount of corrosion on the outside.
- (e) Broken valve casings.

3.2.2 Indicator Assemblies 41A4178.-

- (a) Indicator assemblies having damaged threads or cracked out rivet holes.

3.2.3 Plug 8PNT.-

- (a) Plugs having damage to threads.

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3.3 Reconditioning Operations:

3.3.1 Cylinder and Valve Assembly 981557.-

- (a) Discharge cylinder - make certain that the cylinder is empty before attempting any disassembly or any reconditioning operations.
- (b) Disassemble. The following should be noted in disassembling cylinder and valve assemblies:

Before disassembly of the valve from the cylinder can be accomplished, it is necessary that the valve be completely disassembled.

During the disassembly operation, before unscrewing the two headless set screws which key together the torque arm and lead nut, note that the lead screw has a quadruple thread and can mate in four different positions relative to the lead nut; here, for proper reassembly if the original parts are re-used, mark the following parts lightly with a center punch prior to removal: torque arm, casing, lead nut, lead screw, and valve body.

- (c) Clean all parts thoroughly with clean, dry compressed air. Pay particular attention to the seating surfaces, passages and threads.
- (d) Inspect all parts carefully. Inspect for signs of corrosion. Inspect springs for deformity or damage to ends. Examine lead screw and lead nut for burrs and foreign particles. Check threads of safety disc retainer assembly and non-recoil connector assembly for burrs, nicks, stripping, or corrosion. Check valve seat for scoring, roughness, or pitting. Test to see that there is absolutely smooth action between the lead screw and lead nut. The one part should drop of its own weight when the other is held and vice-versa.
- (e) Repair or replace parts as authorized herein.
- (f) Reassemble. The following shall be noted in reassembling:

Lubricate the latch bearings, the lead screw, lead nut, stem thread, stem packing, and lower stem with a low temperature grease, Specification AN-G-25. Check the entire assembly for tightness of parts.

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3.3.1 Cylinder and Valve Assembly 981557.- (Continued)

- (g) Test the valve operationally by charging the cylinder with air at 20 psi. Pull the lever and discharge the cylinder to see that the valve operates properly.
- (h) Refinish in accordance with FS 302.
- (i) Recharge the cylinder to comply with winterization requirements as follows: Charge the cylinder with nitrogen up to a pressure of 200 psi. After reaching 200 psi, switch from nitrogen to carbon dioxide and charge the cylinder until the weight of the carbon dioxide reaches a total of 5.33 pounds.

NOTE: 3/4-inch yellow dots are no longer required to indicate that a cylinder has been winterized.

- (j) Test cylinder for leakage.

3.3.2 Pulleys 20400 and 933583.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002.
- (c) Lubricate pulleys with AN-G-25 grease.

3.3.3 Indicator 41A4178.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002.
- (c) Install a new indicator disc.

3.3.4 Control Panel and Selector Valves 919475 and 27082.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002 - do not deface placard in cleaning.
- (c) Recondition as authorized herein.
- (d) Install AN fittings in accordance with Drawing 894-183185. Lubricate threads in accordance with PS 398A.

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3.3.5 Fire Extinguisher Bottle Support Assemblies 734-183182 and 183183P.-

- (a) Inspect for nonrepairable conditions.
- (b) Remove felt pads.
- (c) Clean in accordance with OS 7002.
- (d) Modify the 183183P support assembly to conform to the dimensions on Drawing 738-183182 by cutting one inch above lower radius and installing OS 5710-1 strips (5/8 x .038 x 4-7/16 sheet or strip chrome moly steel AN-QQ-8-685 Cond. N) by spotwelding. Lap strips one inch each side of splice and secure with 3 spots each end.
- (e) Refinish in accordance with FS 302.
- (f) Install new felt pads in accordance with Drawing 734-183182.

3.3.6 Plug 8PWT.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002.

3.3.7 Clamp 189460P-2.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002.
- (c) Cadmium plate in accordance with QQ-P-416.

3.4 Authorized Repairs:

3.4.1 Cylinder and Valve Assembly 981557.-

- (a) Parts needing further cleaning (Reference Paragraph 3.3.1) may be cleaned with StanaSol cleaning solvent in accordance with OS 7002.
- (b) Repair of the detail parts of the cylinder and valve assembly is not practical. Replace all damaged parts with new ones. The safety disc and safety disc washer are to be replaced 100 percent.

3.4.2 Indicator 41A4178.-

- (a) Threads may be chased if slightly damaged.



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3.4.3 Control Panel 919475.-

- (a) If valve is sticking it may be soaked in Stanisol cleaning solvent and worked free.
- (b) When 15092 spacers are damaged or missing, 1008D1-A4-0812 bushings may be used.
- (c) When 18367 coupling is damaged or missing, it may be replaced by making a new part from 3/8 x 1/4 bar 618-T6 aluminum alloy. Make part .813 x .375 x .250. Prime new part, reference FS 302.
- (d) If socket 19110 is missing or damaged beyond useability, and new part is not available, socket 17297 may be reworked into a useable part by cutting off small threaded end flush with flange of larger threaded portion. Ream center hole with a 21/64 drill and tap 1/8 x 27 pipe thread, National Standard taper in accordance with Specification AN-GGG-P-363.
- (e) Panels that are bent may be straightened to best shop practice.
- (f) Scratched or exposed areas on placards and handles may be touched up with paint.
- (g) Release handles may be painted with red paint in accordance with FS 302.
- (h) A new release cable shall be installed.
- (i) Threads may be chased if slightly damaged.

3.4.4 Selector Valve Assembly (Kelsey Hayes) 27082.-

- (a) Placards that are scratched or have exposed areas may be touched up with black paint.
- (b) Paint release handles red in accordance with FS 302.
- (c) Threads may be chased if slightly damaged.
- (d) A new release cable shall be installed.

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4. INSPECTION

4.1. General. - Inspect in accordance with this specification, Drawings 894-183185 and 189450P, and the general acceptable quality standards in OS 7008.