

CBS - Carsten Daus GmbH

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CAGE CODE: DL161

LIQUID SOAP DISPENSER

PART NUMBER

A616-23-40-10

COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST

Issue: A
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COMPONENT MAINTENANCE MANUAL
SOAP DISPENSERS
SEIFENSPENDER
A616 SERIES

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INTRODUCTION

1. GENERAL

This Component Maintenance Manual (CMM) contains maintenance information and Illustrated Parts List (IPL) for the Soap Dispensers installed in aircraft lavatories.

The information is prepared in accordance with Air Transport requirements.

2. MANUFACTURER

The Soap Dispensers are manufactured by:

CAGE CODE: DL161

CBS - Carsten Daus GmbH
Friedberger Str. 35
D-63452 Hanau (Germany)

Telephone: +49 (0) 6181 3040 818
Telefax: +49 (0) 6181 3040 885
E-mail: service@DausCBS.com
Internet: <http://www.dauscbs.com>

3. MAINTENANCE POLICY

The Component Maintenance Manual provides procedures that will enable an approved repairer, who is unfamiliar with the component, to restore the Soap Dispenser to a serviceable condition. These procedures are prepared for the shop mechanic who performs work.

4. REVISION SERVICE

This manual will be updated as required by revisions. Changes to hardware given in service bulletins will be included in this manual with revisions. Configuration changes will be shown in the text by the service bulletin number, i.e. pre SB- and post SB-. Procedures of illustrations not identified by pre SB- or post SB- refers to all configurations.

5. SHOP VERIFICATION

The procedures within this manual have been shop verified by the manufacturer. The sections Testing, Disassembly and Assembly and Storage were verified by actually performing the functions described in these sections.

6. WARNING, CAUTIONS, NOTES

These adjuncts to the text are expressed by the following headings:

- WARNING: WARNINGS CALL ATTENTION TO THE USE OF MATERIALS, ROCESSSES, PROCEDURES, METHODS OR LIMITS WHICH MUST BE ADHERED PRECISELY TO AVOID DEATH OR INJURY TO PERSONS.
- CAUTION: CAUTIONS CALL ATTENTION TO METHODS AND PROCEDURES WHICH MUST BE FOLLOWED TO AVOID DAMAGE TO EQUIPMENT.
- NOTE: NOTES CALL ATTENTION TO METHODS WHICH MAKE THE JOB EASIER.

7. MEASUREMENT UNITS

All the units in this manual are metric with English equivalents shown in brackets. Units of temperature are in degree Celsius, Fahrenheit shown in brackets.

8. LIST OF ABBREVIATIONS

ASSY	ASSEMBLY
C	CELSIUS
cm	CENTIMETER
CMM	COMPONENT MAINTENANCE MANUAL
DES	DESCRIPTION AND OPERATION
Det	DETAILS
EFF	EFFECTIVE
F	FAHRENHEIT
FIG	FIGURE
FWD	FORWARD
in	INCH
IPL	ILLUSTRATED PARTS LIST
kg	KILOGRAMM
lb	POUND
LH	LEFT HAND
max.	MAXIMUM
mm	MILLIMETER
NHA	NEXT HIGHER ASSY
NO.	NUMBER
REF	REFERENCE
RH	RIGHT HAND
SB	SERVICE BULLETIN

DESCRIPTION AND OPERATION

1. GENERAL

This section has description and operation information for the Liquid Soap Dispenser.

WARNING: IN ORDER TO GUARANTEE MAXIMUM PERFORMANCE OF THE LIQUID SOAP DISPENSER, USE ONLY LIQUID CREME SOAP OR SHAMPOO. DO NOT USE INDUSTRIAL SOAPS OR SOAP WITH ABRASIVE OR SOLVENTS. LIQUID SOAP MUST HAVE NA₂CO₃-SHARE < 1 % AND BE FREE OF ALCOHOL AND AROMATIC COMPOUNDS. WE RECOMMEND TO USE ONLY THE ORIGINAL APPROVED SOAP MANUFACTURED BY CBS - CARSTEN DAUS GMBH.

2. DESCRIPTION

- A. The Liquid Soap Dispenser, herein referred to as the unit, is installed in aircraft lavatories. The unit is mounted on the lavatory cabinet surface; the soap container is mounted in the cabinet. At standard installation, the soap container is mounted below the dispenser.
- B. The visible parts are chromium plated.
- C. All parts with the same part number are completely interchangeable with respect to fit, form and function.
- D. The Liquid Soap Dispensers consist mainly of 3 parts:
 - Piston Assy (faucet/pump) which is mounted on the counter top
 - Bottle (1000 ml)
 - Holder

3. OPERATION

The soap will be pumped through the outlet by pushing the pump top. Single-hand operation of the unit is possible.

4. TECHNICAL DATA

A. Filling capacity

The unit is available with a filling capacity of:

- approx. 1,00 l (33.81 oz.) for approx. 1000 - 1300 washings

B. Weight

Weight Soap Dispenser complete:

A616-23-40-10 0,780 kg (1.719 lb)

TESTING AND FAULT ISOLATION

1. GENERAL

- A. This section contains testing and fault isolation for the Liquid Soap Dispenser.
- B. The procedures given below must be completed if a failure is found with Liquid Soap Dispenser during use, or to make sure that the unit is serviceable before it is put into or put back into service.
- C. Carry out all procedures in a clean area to avoid scratches or other damages of any part.
- D. Numbers in parenthesis following item names in the procedures refer to the figures and item numbers in page-block 10001, ILLUSTRATED PARTS LIST.
- E. Make a visual inspection of the Liquid Soap Dispenser as detailed in page-block 5001, CHECK.

2. LIST OF POSSIBLE DEFECTS

NOTE: Ensure that soap container is filled. If the unit does not discharge any soap and defects listed below are not determinable, check that the unit contains the recommended soap (Refer to chapter SERVICING).

FAULT	PROBABLE CAUSE	CORRECTION ACTION
NO, OR INSUFFICIENT SOAP DISCHARGE	A. CONNECTION BETWEEN PISTON ASSY AND TUBE IS LOOSE	- CONNECT TUBE WITH THE PISTON ASSY
	B. CONNECTION BETWEEN PISTON ASSY AND TUBE IS DEFECTIVE	- REPLACE TUBE
	C. TUBE TOO SHORT	- REPLACE TUBE
	D. TUBE TOO LONG	- CUT TUBE TO OR INSTALL TUBE WITH CORRECT LENGTH AND NOTCH AT THE LOWER END

FAULT ISOLATION CHART
 TABLE 1001

CLEANING

1. GENERAL

A. List of Materials, Tools and Fixtures

WARNING: THE INSTRUCTIONS FOR USING THE MATERIALS HAVE TO BE OBSERVED (REFER TO THE CORRESPONDING MATERIAL SUPPLIER'S INSTRUCTIONS).

NOTE: Equivalent substitutes can be used for listed items.

MATERIAL	SPECIFICATION	SOURCE
CLEAN WATER		LOCAL PURCHASE
ALCOHOL		LOCAL PURCHASE

CLEANING MATERIALS
TABLE 4001

2. PROCEDURE

CAUTION: TO PREVENT DAMAGE OR DISTORTION OF THE UNIT DO NOT USE ABRASIVE CLEANERS.

NOTE: Cleaning must be carried out after 18 months.

- A. Clean the Piston Assy by pumping clean water through the unit.
- B. Clean the Soap Bottle by filling it with clean water and shaking the Soap Bottle several times. Repeat this procedure twice.

CHECK

1. GENERAL

A. Procedure

- (1) Check all parts of the unit visually. Parts which are defective, broken or deformed have to be replaced.

REPAIR

1. GENERAL

No special repair procedure is applicable. Defective parts must be replaced.



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ILLUSTRATED PARTS LIST

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INTRODUCTION

1. GENERAL

This IPL contains the complete listing of all replaceable parts of the Liquid Soap Dispenser.

2. MATERIAL ARRANGEMENT

A. This IPL comprises the following sections:

(1) Introduction

The introduction contains all explanatory information for the individual sections as is necessary for use of this IPL. The introduction further contains a list of abbreviations used in detailed parts list as well as a list of manufacturer's codes together with manufacturer's names and addresses.

(2) Numerical Index

(a) This section contains a listing of part numbers of all items listed in the detailed parts list in alpha/numerical sequence with cross-reference to respective Fig./Item Nos. as well as units per assy. The order of precedence in beginning the part number arrangement at the left-hand (first) position is as follows:

- letters A through Z (except ,0' to be considered zero),
- numerals 0 through 9.

(b) For subsequent rows, the order is:

- a dash (-),
- letters A through Z (except ,0' to be considered zero),
- numerals 0 through 9.

(3) Detailed Parts List

(a) Column FIG. ITEM

The first number in the first line of a page indicates the number of the figure illustrating the part. The second number indicates the item number by which the part is identifiable on the illustration. A dash (-) placed before the item number indicates the part is not illustrated.

(b) Column PART NUMBER

The part number column contains the original manufacturer's part number. When standard parts are used, the standard part number is listed in this column.

1 CBS - Carsten Daus GmbH's Part Number Arrangement

Example:

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A616 ----- Model number

23 ----- Version of installation

40 ----- Piston length 101,6 mm (4.0 in.)

10 -- Bottle type and volume (1000 ml)

(c) Column AIRLINE STOCK NUMBER

This column is left blank for airline internal use.

(d) Column IND

The indenture system shows the relationship of parts and assemblies to next higher assemblies or installations as follows:

IND

- 1 Assembly or installation assembly RF number.
- 2 Detail parts of assembly or sub-assembly.
- 3 Detail parts of sub-assembly or sub-sub-assembly.
- 4 etc.

(e) Column NOMENCLATURE

1 Attaching parts

Attaching parts are captioned ATTACHING PARTS and are listed immediately following the parts attached.

The *** symbol follows the last item of the attaching parts group. Column EFF CODE

2 Cage (Vendor) Code

Parts manufactured by companies other than CBS-Carsten Daus GmbH are identified by an appropriate cage (vendor) code following the nomenclature. Vendor codes are in accordance with current issues of Federal Supply Codes for Manufacturers Cataloguing Handbooks H4-1, H4-2 and H4-3, and are preceded by the letter „V“. Standard parts such as An, MS etc. are not identified by a vendor code.

(f) Column EFF CODE

The Effectivity Code column establishes a part relationship with units or assemblies which are essentially the same but have minor deviations. These units or assemblies are assigned reference letters such as A, B, C etc. Parts which are not common to all configurations but are associated with one or more of the coded lead items, carry the letter or letters assigned to the lead item with which it is associated. Where a part is common to all lead items, the effectivity column is left blank.

(g) Column UNITS PER ASSY

This column contains the quantity of a specific catalog sequence numbered part required in the build sequence of only one (where more than one exists) next higher sub-sub-assembly, sub-assembly, assembly or installation level as applicable. For bulk items, the letters "AR" are inserted in the quantity column to indicate "as required". Where items are listed for reference purpose, "RF" is inserted.

(4) Explanation of Terms and Symbols

- (a) Part numbers with more than 15 characters require the introduction of a dummy part number with a cross-reference to the over length part number. This will be shown in the detailed parts list as follows:
"OPN xxxxxxxxxxxxxxxx (Vx)
- (b) Part numbers amended with a capital letter (shown in the nomenclature column) means that this equipment is improved without any change to the operational effect.
- (c) The term "REPLD BY" means that the part in the part number column is replaced by and is interchangeable with the part number shown in the notation.
- (d) The term "REPL" means that the part in the part number column replaces and is interchangeable with the part number shown in the notation.
- (e) The term "ALT" means that the part is an alternative for another part with equal value, weight, dimension, etc. Can be noted with certain specifications or completely interchangeable.

- (f) The term "IND" means that the part is completely equal to other variants listed without any differing specifications. It may be used in any instance where the alternate part is referenced.
- (g) The term "NP" means that the part is not procurable. Order next higher assembly.

(5) List of Abbreviations

The following abbreviations are used in this IPL:

Abbreviation

ALT	ALTERNATE PART NUMBER
AR	AS REQUIRED
ASSY	ASSEMBLY
BKDN	BREAKDOWN
DET	DETAIL
EFF	EFFECTIVE/EFFECTIVITY
FIG	FIGURE
IN	INCH
IND	INDENTURE
IPL	ILLUSTRATED PARTS LIST
L	LITER
MM	MILLIMETER
NHA	NEXT HIGHER ASSEMBLY
NO	NUMBER
NOS	NUMBERS
NP	NOT PROCURABLE
OPN	OVERLENGTH PART NUMBER
OPT	OPTIONAL PART NUMBER
PNR	PART NUMBER
REPLD	REPLACED
REPLS	REPLACES
REQ	REQUIRED
RF	REFERENCE
SUPSD	SUPERSEDED
SUPSDS	SUPERSEDES
TTL	TOTAL
V	VENDOR

- (6) List of Vendors
 Not applicable



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NUMERICAL INDEX

PART NUMBER	AIRLINE STOCK NO.	FIG	ITEM	TTL REQ
A616-102-1-K		01A	002A	1
A616-110-12		02A	002A	1
A616-23-2		02A	001A	1
A616-23-40-10		01A	001A	1
A616-95		03A	001A	1
A616-KEY		01A	005A	1
B822-111-12		01A	004A	1
B822-118-11		04A	001A	1
DI N3017AL20-32W3		01A	003A	2
MS3367-2		01A	007A	1



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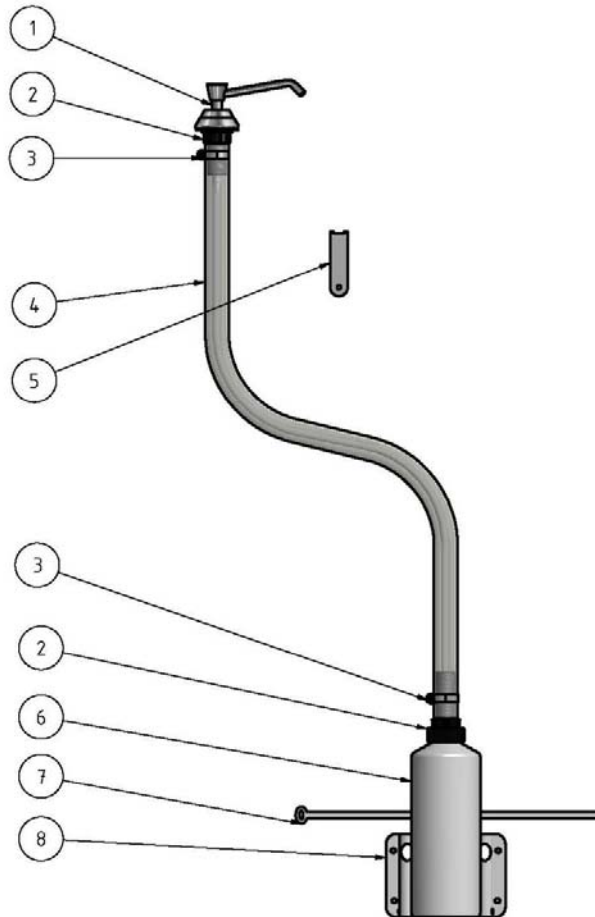
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DETAILED PARTS LIST

DPL
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LIQUID SOAP DISPENSER
A616-23-40-10
FIGURE 1A

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	I N D	NOMENCLATURE	EFF CODE	UNIT PER ASSY
01A						
001A	A616-23-2		1	PISTON ASSY – SOAP DISPENSER, TABLE MOUNTED	A	1
002A	A616-102-1-K		1	SHANK ASSY A616	A	1
003A	DIN3017AL20-32W3		1	CLAMP	A	2
004A	B822-111-12		1	TUBE 22x3 MM, 900 MM	A	1
005A	A616-KEY		1	KEY	A	1
006A	A616-95		1	BOTTLE, 1000 ML	A	1
007A	MS3367-2		1	TIE, CABLE	A	1
008A	B22-118-11		1	HOLDER, ALU	A	1
-009A	A616-110-12		1	Tube 8x11 MM, 1140 MM	A	1

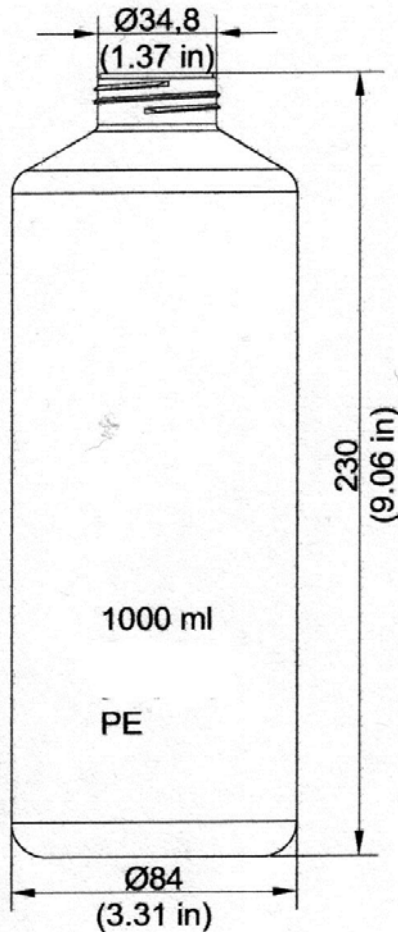
- ITEM NOT ILLUSTRATED



PISTON ASSY
A616-23-2
FIGURE 2A

FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	QTY	NOMENCLATURE	EFF CODE	UNIT PER ASSY
O2A						
001A	A616-23-2		1	PISTON ASSY	A	1
-002A	A616-110-12		1	TUBE, 8x11 MM, 1140 MM	A	1
-003A	A616-KEY		1	KEY	A	1

- ITEM NOT ILLUSTRATED



BOTTLE
A616-95
FIGURE 3A



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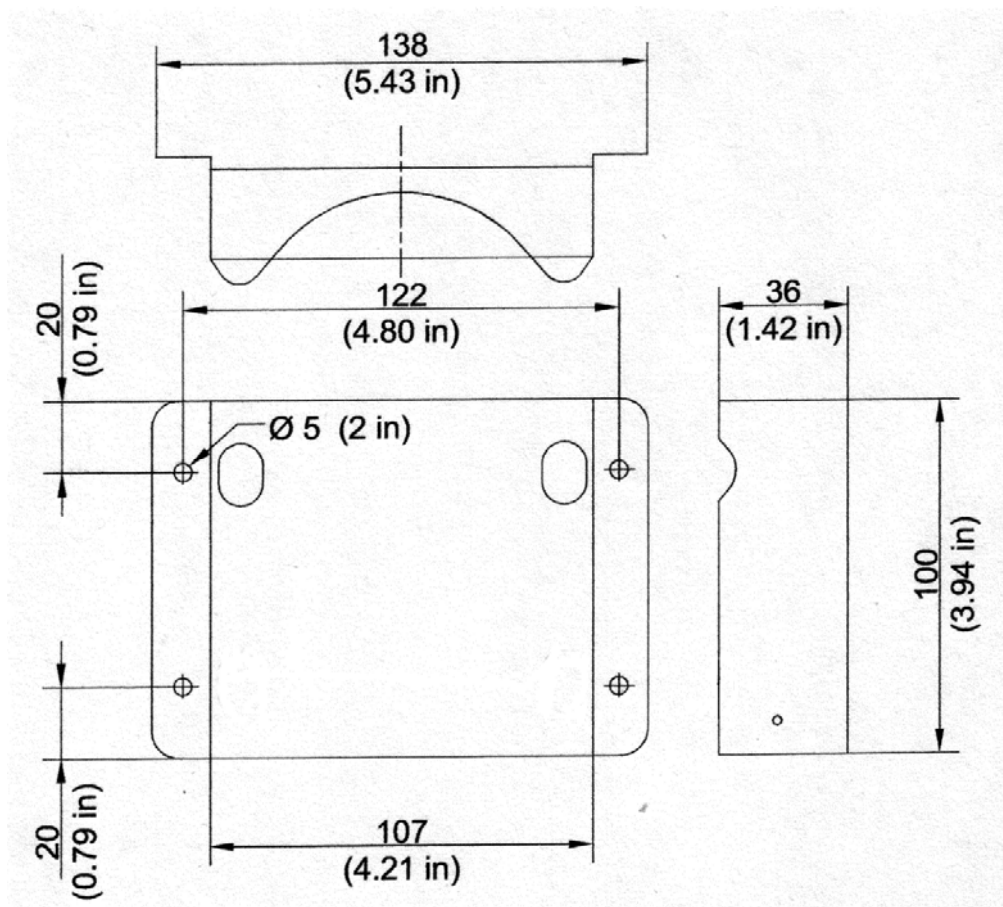
FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	QTY	NOMENCLATURE	EFF CODE	UNIT PER ASSY
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03A	001A A616-95		1	BOTTLE 1000 ML	A	1
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- ITEM NOT ILLUSTRATED

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HOLDER
B822-118-11
FIGURE 4A



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FIG. ITEM	PART NUMBER	AIRLINE STOCK NUMBER	QUANTITY	NOMENCLATURE	EFF CODE	UNIT PER ASSY
04A	001A B822-118-11		1	HOLDER	A	1

- ITEM NOT ILLUSTRATED

INSTALLATION

A. General

NOTE: Before first installation, the location has to be chosen taking into consideration the available space needed to install all parts into the cabinet surface. The diameter of the mounting hole must be 25 mm (1.0 in.)

B. Procedure

(1) Installation of Unit PN A616-23-40-10

- (a) Insert piston assy together with upper part of the shank and tube into the mounting hole of the cabinet.

NOTE: Ensure that the outlet of the piston extends over the sink and that it remains in position during further installation.

- (b) Tighten up nut hand tight.

CAUTION: TO PREVENT DAMAGE TO SHANK, DURING FASTENING NUT, USE NOT TOO MUCH POWER. TORQUE VALUE IS 15,00 NM (11.06 lbf.ft.).

- (c) Install one clamp and large tube on the upper part of the shank.
(d) Install the holder into the cabinet.

NOTE: If holder is to be installed for the first time, mounting holes with a diameter of 5 mm (0.19 in.) must be drilled. Use appropriate screws taking into consideration the material and thickness of the wall.

- (e) Install and secure lower part of shank onto bottle adapter and install both together on bottle.
(f) Tighten up bottle and adapter hand tight.

NOTE: Apply sealant (Elastosil E43) for the bottle installation.

- (g) Install the equipped soap bottle onto large tube and secure with second clamp.
- (h) Secure the bottle with the cable tie onto the holder.

NOTE: For filling the unit refer to chapter SERVICING.

SERVICING

1. REFILLING

The unit shall be refilled without removal of the soap bottle.

A. Procedure

- (1) Turn upper part with key counter clockwise until it has been released.
- (2) Lift inlet/pump with tube from the piston assy and let it rest on the counter top.
- (3) Refill soap bottle with liquid soap through the open piston assy.
- (4) Attach inlet/pump with tube to the piston assy.
- (5) Secure it by turning with the key clockwise until it stops.

STORAGE

1. GENERAL

A. Storage Instructions

- (1) Place unit in a suitable cardboard box and identify on the outer surface.
- (2) Store in a dry room.