

AP 105C-0108-13



(Formerly AP 105C-0108-1)

JAGUAR

AIR FILTER
DUNLOP PART No ACO1268
AND ACO7273

GENERAL AND TECHNICAL INFORMATION (-1)
PARTS CATALOGUE AND RELATED INFORMATION (-3)
BY COMMAND OF THE DEFENCE COUNCIL

Mine Whitmore.

Ministry of Defence

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WARNINGS

CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH

MAKE SURE YOU KNOW THE SAFETY PRECAUTIONS AND FIRST AID INSTRUCTIONS BEFORE YOU USE A HAZARDOUS SUBSTANCE

READ THE LABEL ON THE CONTAINER IN WHICH THE SUBSTANCE IS SUPPLIED

READ THE DATA SHEET APPLICABLE TO THE SUBSTANCE

OBEY THE LOCAL ORDERS AND REGULATIONS

WARNINGS

- (1) HAZARD STORES. THE SOURCE REFERENCE FOR HAZARDOUS STORES IS JSP (F) 395 . AP100B-10 SUBSTANCES HAZARDOUS TO HEALTH IS A SUPPLEMENTARY BOOK FOR USE IN THE RAF.
- (2) HIGH PRESSURE AIR. HIGH PRESSURE AIR IS DANGEROUS. NEGLECT OF SAFETY PRECAUTIONS MAY LEAD TO INJURY OR FATALITY. DO NOT CONNECT, DISCONNECT OR ADJUST COUPLING WHILE SYSTEM IS PRESSURISED.
- (3) WHEN CLEANING WITH COMPRESSED AIR , SAFETY GOGGLES ARE TO BE WORN, AND CLEAN DRY AIR TO BE USED AT A PRESSURE NOT MORE THAN 1.7BAR (25LBF/SQ IN).
- (4) LOTOXANE. LOTOXANE IS USED IN THE MAINTENANCE OF THIS EQUIPMENT . REFER TO AP 100B-10, DATA SHEET S2401.
- (5) LEAK DETECTOR (SNOOP) -HARMFUL BY INGESTION. IRRITANT IN CONTACT WITH THE EYES AND SKIN . LEAK DETECTOR (SNOOP) IS USED IN THE MAINTENANCE OF THIS EQUIPMENT. REFER TO JSP(F)395.
- (6) GREASE. GREASE IS USED IN THE MAINTENANCE OF THIS EQUIPMENT. REFER TO AP100B-10, DATA SHEET S2401.
- (7) CORROSION PREVENTATIVE COMPOUND PX-4. CORROSION PREVENTATIVE COMPOUND PX-4 IS AN IRRITANT AND CARCINOGENIC. ASPIRATION OF DROPLETS INTO THE LUNGS WILL CAUSE INTENSE IRRITATION AND MAY LEAD TO CHEMICAL PNEUMONIA. INHALATION OF OIL VAPOR MAY CAUSE DIZZINESS OR NAUSEA. EYE SPLASHES WILL BE IRRITATING. PROLONGED AND REPEATED SKIN CONTACT MAY CAUSE DERMATITIS AND, IF EXPOSURE IS CONTINUED, MAY, LEAD TO SKIN CANCER. AVOID CONTACT WITH SKIN AND EYES. WHEN HANDLING, WEAR RUBBER GLOVES AND GOGGLES. IF APPLYING BY SPRAY, BREATHING APPARATUS OR A FILTER RESPIRATOR WITH FULL FACE MASK MUST BE WORN. CONTAMINATED CLOTHING MUST BE REMOVED AS SOON AS POSSIBLE AND LAUNDERED BEFORE RE-USE. REFER TO JSP317 AND JSP(F)395.
- (8) MINERAL AND COMPRESSOR OIL – ARE HAZARDOUS SUBSTANCES. REFER TO LOCAL HEALTH AND SAFETY REGULATIONS BEFORE USE. REFER TO JSP(F)395.

AIR FILTER
DUNLOP PART NO. ACO.1268, ACO.7273

LEADING PARTICULARS

Max working pressure

ACO.1268 1500 lbf/in²

ACO.7273 2750 lbf/in²

Connections $\frac{1}{4}$ in. B.S.P.

Overall dimensions (in.) 4.4 x 3.2 x 2.25 approx.

Weight of unit 0.641 lbf.

DESCRIPTION

1. These filters differ from each other in respect of the maximum operating pressure. The filter element for each unit consists of a felt pad sandwiched between two perforated plates.

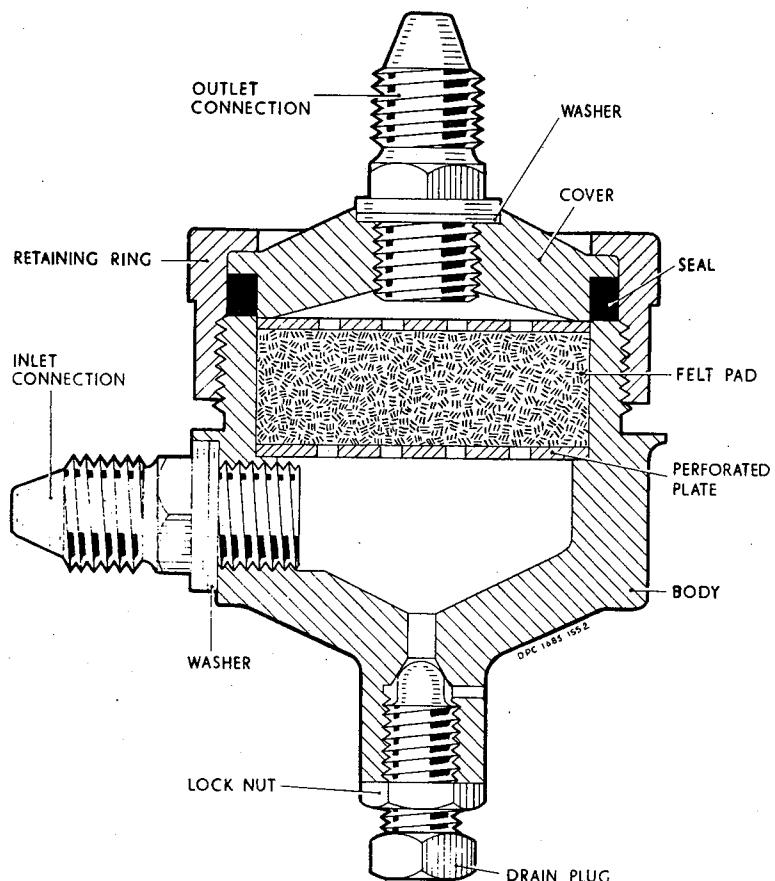


Fig.1 Air filter Aco.1268

SERVICING

DISMANTLING

2. As the component parts are dismantled isolate them from tools and equipment likely to cause damage. It is not necessary to remove the connections unless they are damaged.

- (1) With the ring spanner ACO.6838 unscrew the retaining ring.
- (2) Lift off the cover and remove the seal.
- (3) Extract the top perforated plate, the felt pad and the bottom plate.
- (4) Unscrew and remove the drain plug and locknut.

CLEANING

3. If chemical grease solvents are used for cleaning, ensure that they do not come into contact with the rubber seal. Thoroughly clean and dry all metallic components.

EXAMINATION

4. (1) Examine the filter body, the cover and the retaining ring for damage and corrosion. Polish out slight external damage or corrosion with a smooth hone or grade 00 carborundum. Thoroughly clean and degrease the dressed area. Treat the bare metal as detailed in A.P.119A-0600-1, Section 3, Chap.5.

(2) Examine the rubber seal, if it has not been removed from its groove, for damage and embedded foreign matter. Renew a defective seal.

(3) Examine the remaining components for damage. Check that all threads are in good condition.

DRAINING

5. Before attempting the draining of an air filter it is advisable to know the type of pneumatic system in which the air filter functions. If the system is of the high pressure pneumatic type and incorporates an oil and water trap and dehydrator then the oil and water will have been removed before it reaches the filter. Any signs of oil or water residue in a filter used in such a system render the filter unserviceable and calls for examination of the faulty system.

6. Filters functioning in low pressure systems in which oil and water traps and dehydrators are non-existent serve to extract from the air, oil and water as well as any other foreign matter which is likely to be present.

7. The following instructions must be followed when draining the filter:-

WARNING...

WHILE SYSTEM PRESSURE IS PRESENT IN THE FILTER THE DRAIN VALVE MUST NOT BE UNSCREWED BY MORE THAN $\frac{1}{4}$ TURN.

Draining under pressure

8. (1) Slacken the locknut and unscrew the drain valve $\frac{1}{4}$ turn only; this will allow the air pressure to expel any oil and water which may have accumulated in the base of the filter.

Draining without pressure

9. (1) With the compressor inoperative and no air in the system proceed as follows:-

(a) Unscrew the drain valve $\frac{1}{4}$ turn only and allow the residual pressure to discharge completely. It may be necessary to insert a small rod through the drain plug bore to clear any congealed oil and water deposit remaining in the filter.

ASSEMBLING

10. If the metal sealing washers have been removed from their housings during dismantling, it is recommended that new ones are fitted; also that filter element and the rubber sealing washer are renewed. Assembly compounds must be smeared sparingly on the relevant parts of the components and then wiped off to leave only a fine surface film. There must be no surplus which might exude into the unit during assembly.

The following compounds are used:-

► Grease XG-315 ► (Ref. No. 34B/9150-99-7758340)	► Rubber seal and the retaining ring thread ► Screw threads and metal sealing washers
► Lanolin ► (Ref. No. 33C/2244365)	

Note...

Lanolin must not be used where it may contaminate the rubber seal.

- (1) Position the sealing washer over the inlet connection and secure the connection to the body.
- (2) House the bottom plate, a new felt pad and the top plate in the body.
- (3) Fit the seal to the cover.
- (4) Place the cover on the body and with the retaining ring secure the cover. Use the C-type spanner A0.6838.
- (5) Position the sealing washer over the outlet connection and screw the connection to the body.
- (6) Fit the drain plug and locknut.
- (7) After satisfactory testing lock the connections to the retaining ring with wire Ref. No. 30A/9437135.

TESTING

11. After any servicing operations involving dismantling and assembling the following tests must be applied to the unit. Fit a pressure gauge to the outlet connection and connect a supply pipe to the inlet connection. Keep all pipelines as short as possible.

- (1) Apply maximum working air pressure to the inlet connection and check that both inlet and outlet gauges register the same pressure. Release all pressure.
- (2) With the unit still thus connected immerse the filter in clean water and apply the maximum working pressure at the inlet and check for leakage. No leakage is permissible.
- (3) After testing, thoroughly dry the unit externally.

PARTS CATALOGUE AND RELATED INFORMATION (-3)

MODIFICATION RECORD

| Mod. AL
No. No. |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | | |

* Incorporated in initial issue of catalogue
NA Mod. not applicable to this catalogue
C Mod. cancelled
AS Amendment Sheet

PREFACE

Demands

1. Requirements for demands are:

1.1 The demand must quote the appropriate Vocabulary Section and Reference/Stock Number for each item. Unreferenced parts are not normally provisioned as spares and demands for such items must quote the Vocabulary Section, Maker's Part Number, and the name and type of the equipment. The location of each part within the equipment should be clearly indicated.

1.2 Demands are to be prepared in accordance with the procedures laid down in AP 830 Volume 1 or BR4.

Local Manufacture

2. Parts annotated 'LM' are to be manufactured from local resources. If the manufacture of such items is beyond the capacity of the unit, the demand is to be endorsed 'Unable to manufacture locally'.

Major Repair

3. 'MR' indicates that an item is required for major repair purposes only and will not normally be held in store by units other than those authorised to undertake major repair of the equipment.

Units Per Assembly

4. The number quoted is the quantity required per next higher assembly in the position shown except 'attaching parts' which quote the quantity required to attach one item. The letters 'AR' in the 'Units Per Assy' column indicate that the quantity is 'as required'. Where applicable the quantity normally fitted is shown as a nominal figure, e.g. (Nom 3). Where an item is listed only for reference purposes the letters 'RF' are quoted.

Classification of Equipment

5. The Class of Store is indicated by a single letter as laid down in AP 830 Volume 1 or BR4.

Condition of Supply (Interchangeability Code)

6. Condition of Supply is indicated by one of the following letters and is only quoted against parts which are not directly interchangeable:

- V Open up holes on assembly
- W Partially assembled
- X Ream or machine on assembly
- Y Drill or drill and tap on assembly
- Z Trim on assembly

Obsolescent Stock

7. An asterisk in the 'Part No.' column indicates that no further purchases of the item will be made but the part is to be used until stocks are exhausted.

Modifications

8 When items are affected by a modification the 'Mod No.' is quoted in the Nomenclature. Modifications incorporated in the catalogue are listed in the Modification Record.

INDEX OF NATO STOCK NUMBERS

Vocab Sect.	NATO Stock No.	Part No.	Chap. No.	Fig./Index No.	ICY MR	C of S
28M	5310-99-100-7404	A27-JT DSR360-6		1/2 1/2		C
27G	5310-99-101-3864	AHO4727		1/4		C
27G	4310-99-101-5383	AHO1056		1/7		C
27G	1630-99-461-7620	ACO1268		1/-		P
27VA	5120-99-461-9923	AO6838		1/8		C
27VA	4330-99-900-6816	ACO7273		1/-		P
27G	4330-99-900-8667	ACO8991		1/6		C
27G	4330-99-900-8668	AHO1068		1/1		C
27G	5330-99-900-8669	AHO1666		1/5		C
27G	4730-99-900-8670	ACO1283		1/3		C

INDEX OF PART NUMBERS

Part No.	Vocab Sect.	NATO Stock No., Ref. No. or LM	Chap. No.	Fig./Index No.
A27-JT	28M	5310-99-100-7404		1/2
ACO1268	27G	1630-99-461-7620		1/-
ACO1283	27G	4730-99-900-8670		1/3
ACO7273	27VA	4330-99-900-6816		1/-
ACO8991	27G	4330-99-900-8667		1/6
AHO1056	27G	4310-99-101-5383		1/7
AHO1068	27G	4330-99-900-8668		1/1
AHO1666	27G	5330-99-900-8669		1/5
AHO4727	27G	5310-99-101-3864		1/4
AO6838	27VA	5120-99-461-9923		1/8
DSR360-6	28M	5310-99-100-7404		1/2

DETAILED PARTS LIST

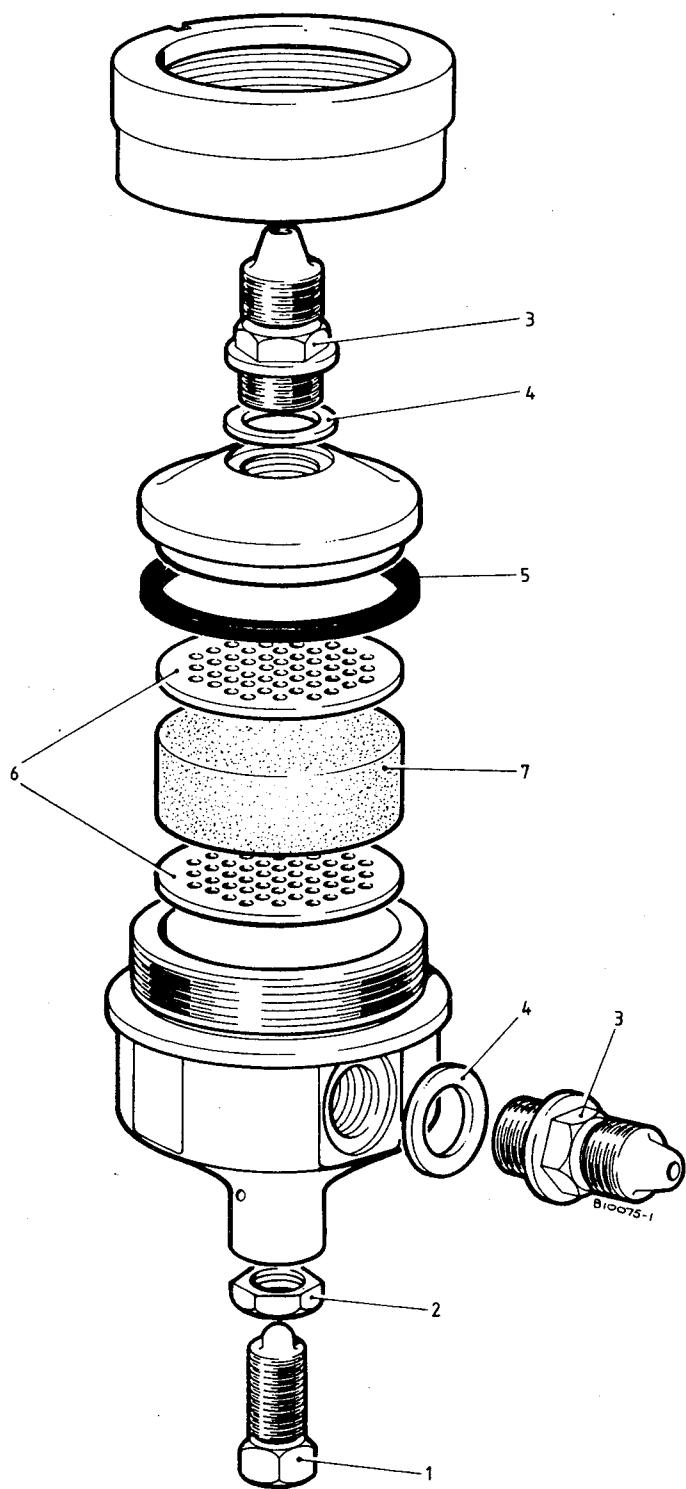


Fig. 1 Filter assembly, air

DETAILED PARTS LIST

FILTER ASSEMBLY, AIR

Fig./ Index No.	Part No.	Nomenclature	Usage Code	Units Per Assy
		1 2 3 4 5 6		
1-	ACO1268	FILTER ASSEMBLY, AIR		
	ACO7273	FILTER ASSEMBLY, AIR		
-1	AHO1068	. VALVE, DRAIN		1
-2	A27-JT	. NUT, 3/8 IN. BSF (DSR360-6)		1
-3	ACO1283	. CONNECTION, PIPE		2
-4	AHO4727	. WASHER, SEALING, CONNECTION		2
-5	AHO1666	. SEAL, FILTER BODY		1
-6	ACO8991	. PLATE, PERFORATED		2
-7	AHO1056	. ELEMENT, FILTER		1
		SPECIAL TOOL -		
-8 +	AO6838	SPANNER, RING, FILTER CAP		1

+ Item not illustrated

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