



General Aviation

AIRCRAFT AIR FILTERS

Cleaning Instructions for FAA-PMA Dry-Type Filters & Replacement Filter Application Information

Document Number P469075* Rev 7

Thank you for choosing Donaldson replacement air filters. Donaldson air filters are specially designed for your aircraft engine. To properly maintain your air intake system, please follow the recommended service guidelines and cleaning instructions detailed in this document.

GENERAL SERVICE GUIDELINES

Storage

When storing new and cleaned air filters, be sure they are protected from dust and potential damage.

Recommended Service Schedule

Replace your air filter after three years, five cleanings or 500 flight hours; whichever occurs first.

DO NOT over-service the filter. Over-servicing increases the risk of damage to the air filter from excessive handling and unnecessarily exposes the engine to dirty air.

Service Guidelines

Maintain the filter housing and air transfer duct so there are no dust leaks to the engine.

- DO NOT install a wet air filter on the engine; i.e., after cleaning.
- DO NOT clean or reuse damaged filters.
- DO NOT use solvents or gasoline to clean filters. Put a mark on the filter each time it is cleaned to keep track of the number of cleanings.
- DO NOT apply oil to the filter before or after servicing.

PRE-FLIGHT INSPECTION

Visually inspect the air filter without removing it from the housing during each pre-flight inspection. Remove and clean the filter only if excessive dust or other contaminants are visible.



* This document replaces bulletins 1400-26 and P478873.

CLEANING INSTRUCTIONS

The air filter can be cleaned either by compressed air or washing in a solution of water and detergent (any general purpose detergent may be used). The compressed air cleaning method is recommended when the air filter has only dust on it. Washing is recommended when the air filter contains a combination of dust and oil or carbon. The instrument air filters (noted on back page) are NOT cleanable.

COMPRESSED AIR CLEANING

1. To prevent damage to the air filter, use compressed air less than 10 psi, and keep the nozzle at least one inch away from the filter.
2. Blow the compressed air through the filter in the direction opposite the normal airflow (opposite the airflow arrow).
3. Blow air through the filter until no more dust is being removed. The filter is ready for inspection.

Detergent & Water Cleaning

1. Remove loose dust by running water through the filter in the opposite direction of the normal airflow. Use a gentle water stream of less than 40 psi.
2. Mix 1 ounce of detergent per 2 gallons of water, warm or cold, soft or hard (one cup per 16 gallons). Soak the filter in the solution for 15 minutes. Do not soak more than 24 hours. Swish the filter element around in the solution to help remove dirt.
3. Rinse the filter opposite the airflow with a gentle stream of water (less than 40 psi) to remove all suds and dirt. If the clean side has been contaminated with dirty water during the soak cycle, rinsing from both sides will be necessary.
4. Dry the filter thoroughly before reuse. Warm air of less than 160°F must be circulated. Do not use a light bulb to dry the filter. The filter is now ready for inspection.

Inspection

1. Look through the filter toward a bright light. Inspect the filter thoroughly from all sides for holes and tears in the filter media.
2. Check the filter for damaged metal parts. DO NOT reuse damaged filters.
3. If your filter contains a gasket, inspect the gasket for damage. If it is not smooth and flat, replace the gasket, because the seal may not be air tight. If your filter does not contain gaskets, be sure the sealing surface is smooth and flat.

INSTALLATION

1. Inspect the housing surface on which the filter seals. It must have a clean, smooth and flat surface.
2. Reinstall the filter. Be sure it is mounted securely and there are no dust leaks past the edge of the filter and gasket.
3. This is a dry-type filter – DO NOT apply oil to the filter.

FAA/PMA Eligibility List

Donaldson Part Number	OEM Part & Serial Numbers
CESSNA	
P10-7150	C-294510-0201
120, 140, A.....	ALL
150, 150A-H, J-M.....	ALL
F150G-H, J-M.....	ALL
A150K-M.....	ALL
FA150K-L.....	ALL
152, A152.....	ALL
F152, FA152.....	ALL
P10-7172	C-294510-0301
170, 170A-B.....	ALL
172, 172A-I.....	ALL
172K-N, P, Q.....	ALL
F172D-H, K-N, P.....	ALL
P198281	P198281, CA3559
172S.....	08001 & ON
172R.....	80001 thru 08816, 80018 thru 80585 (if SB98-71-02 is complied with)
172R.....	80586 & ON
P10-7336	C-294510-0401
FR172E-H, J-K.....	ALL
R172K.....	ALL
T41A-D.....	ALL
AM102635EA*	C-294510-0401
R172E-H, J, K.....	ALL
P10-8337	C-294510-0501
AM102035FP*	C-294510-0501
172RG.....	ALL
P11-0172	C-294510-0601
AM107635FP*	C-294510-0601
177, A-B.....	ALL
177RG.....	ALL
P10-6150**	0750038-4
180A-H, J-K.....	ALL
182, 182A-R.....	ALL
182S.....	18280945 & UP
182T, T182T.....	ALL
185, 185A-E.....	ALL
A185E, A185F.....	ALL
F182P-Q.....	ALL
P198290	P198290, CA3717
182S.....	80001 thru 80244 (if SB98-71-02 is complied with)
182S.....	80245 thru 80944
P13-1367	C-294510-0901
R182.....	ALL
T182.....	ALL
TR182.....	ALL
P10-7188	C-294510-0101
188, A.....	ALL
188B.....	thru 18801825
A188, A.....	ALL
A188B.....	thru 18801825
P11-2206	1250704-3
U206F.....	U20602200 & UP
U206G.....	ALL
207, A.....	ALL
210G-H, J-N, R.....	ALL
AM102135FP	1250704-3
206.....	ALL
207.....	ALL
210.....	ALL
AM102235FP	1250704-4
210.....	ALL
P11-3206	1250704-4
T210K-M.....	ALL
T210N.....	thru 21064135

Donaldson Part Number	OEM Part & Serial Numbers
P10-7210	1250846-1
TU206A-G.....	ALL
TP206A-E.....	ALL
T207, A.....	ALL
T210G-H, J-N.....	ALL
T210R.....	ALL
AM101935FP*	1250846-1
TP206A-G.....	ALL
T207, A.....	ALL
T210G-H, K-N.....	ALL
210-5, A.....	ALL
P13-1364	C-294510-0801
T210N.....	21064136 & UP
T210R.....	ALL
TP210N.....	ALL
TP210R.....	ALL
P197268	P197268
T206H.....	ALL
P10-7336	C-294510-0401
337E-H.....	ALL
P10-9337	C-294510-0701
337E-H.....	ALL
P337G, H.....	ALL
T337E-H.....	ALL
AM102335FP	C-294510-0701
337, 337A-H.....	ALL
T337 B-H.....	ALL
P337H.....	ALL
T337-SP.....	ALL
P10-8337	C-294510-0501
T337E-H.....	ALL
AM102035FP*	C-294510-0501
337, 337A-H.....	ALL
T337 B-H.....	ALL
P337H.....	ALL
T337-SP.....	ALL
P13-8988	C-294510-1001
P14-8670	C-294510-0902
T303.....	ALL
AM102735EA	9910018-2
310L, N, P, Q.....	ALL
T310L, N, P, Q.....	ALL
320D-F.....	ALL
401, A-B.....	ALL
402, A-B.....	ALL
P12-6138	9910200-1
AM102935EA*	9910200-1
310R.....	ALL
P10-8421	9910018-1***
T310R.....	ALL
310P, Q (w/SK402-27).....	ALL
320, A-F (w/SK402-27).....	ALL
335.....	ALL
401, A-B (w/SK402-27).....	ALL
402, A-B (w/SK402-27).....	ALL
402B.....	0801 & UP
421, A-C.....	ALL
AM106735EA*	9910018-1***
T310R.....	ALL
310P, Q (w/SK402-27).....	ALL
320, A-F (w/SK402-27).....	ALL
401, A-B (w/SK402-27).....	ALL
402, A-B (w/SK402-27).....	ALL
402B.....	0801 & UP
421, A-C.....	ALL
P12-8156	9913001-1
340, 340A.....	ALL
414, 414A.....	ALL
402C.....	ALL

Donaldson Part Number	OEM Part & Serial Numbers
P12-8157	9910141-1
AM103035EA*	9910141-1
404.....	ALL
BEECHCRAFT	
P12-2322	169-380064-3
B19.....	MB866 & UP
C23.....	M1971, M1980 & UP
C24R.....	MC533, MC537 & UP
P617058	169-380011
19A.....	ALL
23.....	ALL
A23.....	ALL
A23A.....	ALL
A23-19.....	ALL
B23.....	ALL
A23-24.....	ALL
P13-0374	45-921210, 13917
35-33.....	ALL
35-B33.....	ALL
35-C33.....	ALL
E33.....	ALL
F33.....	ALL
B35.....	D-2606 thru D-2631
C35.....	ALL
D35.....	ALL
E35.....	ALL
F35.....	ALL
G35.....	ALL
H35.....	ALL
J35.....	ALL
K35.....	ALL
M35.....	ALL
N35.....	ALL
P35.....	ALL
P10-2646	35-380035-3
S35.....	D7310-D7626, D7643 thru D7650, D7671
P10-5304	35-380035-1, 35-380035-5
36.....	E-1 thru E-184
A36.....	E-185 thru E-1304
C33A.....	ALL
E33A.....	ALL
F33A.....	CE-290 thru CE-792
F33C.....	CJ-26 thru CJ-148
G33.....	CD-1255 thru CD-1304
S35.....	D-7627, D7634 thru D-7650, D-7672 thru D-7976
V35.....	D-7977 thru D-8598
V35A.....	D-8599 thru D-9068
V35B.....	D-9069 thru D-10151
V35TC.....	D-9069 thru D-10151
P13-7627	35-380035-7
A36.....	E-1305 thru E-3635
A36TC.....	ALL
B36TC.....	ALL
F33A.....	CE-793 & UP
F33C.....	CJ-149 & UP
V35B.....	D-10152 & UP
V35TC.....	D-10152 & UP
P13-6680	105-389000-3
76.....	ALL
P13-3881	P133881
77.....	ALL
P12-8219	P12-8219, 122601, AM101020FP
95-55.....	TC-1 & UP
95-A55.....	ALL
95-B55, B55A.....	thru TC-2456

FAA/PMA Eligibility List

Donaldson Part Number	OEM Part & Serial Numbers
P12-7996	P12-7996, 121128-2, AM101120FP
95-C55, C55A	TE-1 & UP
D55, D55A	ALL
E55, E55A	thru TE-1079
58	TH-1 thru TH-740
P12-8167	96-389005-1
E55, E55A	TE-1079 & UP
58	TH-741 & UP
P10-8700	50-389070-15
56TC	TG1 thru TG51
60, A60	P4 thru P246
B60	P247 & UP
AM101820FP	50-389070-15
56TC	ALL
60, A60	ALL
P12-4439	50-389070-23
58P	TJ3 & UP
58TC	ALL
P10-5798	50-389070-11
A65	LC240 & UP
70	ALL
B80	LD270 thru LD327
AM101720FP	50-389070-11
A65	LC-240, LC-335
70	LB-1 thru LB-35
65-B80	LD-270 thru LD-511
65-88	LP-1 thru LP-26, LP-28, LP-30 thru LP-47

PIPER

P10-7150	
J-3	ALL
J3C-65	ALL
J3C-65S	ALL
J4A, A-S, E	ALL
J5A	ALL
J5A-80	ALL
PA-11, S	ALL
PA-12, S	ALL
PA-16, 17	ALL
PA-18, -105	ALL
PA-18A	ALL
PA-18S	ALL
PA-18-"125" (Army L-21A)	ALL
PA-18AS-"125"	ALL
PA-18S-"125"	ALL
PA-18AS-"135"	ALL
PA-18S-"135"	ALL
PA-18-"135"	ALL
PA-18-"150"	ALL
PA-18A-"150"	18-1 thru 18-6963
PA-18S-"150"	ALL
PA-18A (Restricted)	ALL
PA-18A-"135" (Restricted)	ALL
PA-18A-"150" (Restricted)	18-1 thru 18-6963
PA-19	ALL
PA-20, -115, -135	ALL
PA-22	ALL
P11-4419	26874-00, 460-889
PA-23-250	Lycoming Turbo only
PA-24-260	24-4783, 24-4804 through 24-5034

Donaldson Part Number	OEM Part & Serial Numbers
P617058	PS60007-2, 460-632, 89308, CA161PL, AFP-2, 638873
PA-23-250	27-01 through 27-2504
PA-23-235	27-505 through 27-622
PA-24	24-1477 and up
PA-24-250	24-1477 and up or 24-103 through 24-3687 if carburetor air filter kit 754 285 has been installed
PA-24-260	24-3642, 24-4000 through 24-4782, 24-4784 to 24-4803
PA-25-150	ALL
PA-28-140	ALL
PA-28-150	ALL
PA-28-160	ALL
PA-28-180	ALL
PA-28-181	ALL
PA-28-235	ALL
PA-28-201T	ALL
PA-28R-201T	ALL
PA-32-260	ALL
PA-32-300	32-7640001 and up
PA-32R-300	ALL
PA-32-301	ALL
PA-32RT-300	ALL
PA-32R-301 (SP)	ALL
PA-32R-301 (HP)	ALL
PA-32-301FT	ALL
PA-34-200T	ALL
PA-34-220T	ALL
PA-36-285	ALL
PA-36-300	ALL
PA-36-375	ALL
P617053	PS60007-1 460-630, 89309, CA144PL, AFP-1, 638876
PA-28R-180	ALL
PA-28R-200	ALL
PA-28R-201	ALL
PA-28RT-201	ALL
PA-28RT-201T	ALL
PA-30	ALL
PA-34-200	ALL
PA-39	ALL
PA-44-180	ALL
P617774	460-629, 32198-00, CA162, BA-115, 6487894
PA-23-250	27-2505 and up
PA-E23-250	ALL
PA32-300	32-40000 to 32-7540198
P13-6602	560-854
PA-28-236	28-7911001 thru 28-7911282
P13-8683	560-904
PA-28-236	28-7911283 & UP
P10-6590	460-817, 560-747
PA-31	ALL
PA-31-300	ALL
PA-31-325	ALL
PA-31-350	ALL
PA-31-1020	ALL
PA-32R-300T	ALL
AM105770FP	47075, 460-609
PA-31P	ALL
PA-31P-350	ALL

Donaldson Part Number	OEM Part & Serial Numbers
P13-6739	560-947
PA-32-301T, PA-32R-301T	32R-8029001 thru 32R-8629006, 3229003
P10-7150	P12-0494, 560-772
PA-38-112	ALL
P13-8580	86881-2, 560-953
PA-44-180T	ALL
P15-1936	PS60007-3, 561-020
PA-32R-301	ALL
PA-32R-301T	3257001 and ON
PA-32-301XTC	ALL
PA-46-310P	ALL
PA-46-350P	ALL

MOONEY

P10-7150	
M10	ALL
P10-7172	13219
M18C	ALL
M20	ALL
M20A-D, G	ALL
P13-0234	125997-010, BA6210
M20J	ALL
AM108365FP	P13-6287
M20K (231)	ALL
ED04011	600417-501
M20K (252)	25-1000 & ON
ED04028	600417-503
M20M	ALL
M20R	ALL
M20S	ALL

AERONCA

P10-7150	
65-CA	ALL
S65	ALL
S65CA	ALL
7AC, DC, EC, FC,	ALL
7JC, KC	ALL
7ACA	ALL
7BCM (Army L-16A)	ALL
7CCM (Army L-16B)	ALL
7ECA	ALL
7GCAA	ALL
7GCBC	ALL
7KCAB	ALL
S7AC	ALL
S7CCM	ALL
S7DC	ALL
S7EC	ALL

AVIAT

P10-7150	81630, 81631
A-1	ALL

AMERICAN CHAMPION

P10-7150	
7ACA	ALL
7ECA	ALL
7FC	ALL
P10-6150	P10-4145
7KCAB	ALL
8KCAB	ALL
7GCBC	ALL
8GCBC	ALL
7GCAA	ALL

BELLANCA

P10-6150

17-30.....ALL
14-19-3A.....ALL

P617058

**AF-2, BA-104,
6485710**

17-30A.....ALL

B-N GROUP LTD.

P617058

**AF-2, BA-104,
6485710**

BN-2.....ALL
BN-2A.....ALL
BN-2A-2.....ALL
BN-2A-3.....ALL
BN-2A-6.....ALL
BN-2A-8.....ALL
BN-2A-9.....ALL
BN-2A-20.....ALL
BN-2A-21.....ALL
BN-2A-27.....ALL
BN-2B-20.....ALL
BN-2B-21.....ALL
BN-2B-26.....ALL
BN-2B-27.....ALL

DIAMOND AIRCRAFT

P10-7172

BA5110

DA-40F.....ALL

GRUMMAN/TIGER

P10-7150

13203

AA-1.....ALL
AA-1A.....ALL
AA-1B.....ALL
AA-1C.....ALL
AA-5.....0001 thru 0640

LUSCOMBE

P10-7150

ALL

8, A-F.....ALL
T-8F.....ALL

MAULE

P10-7172

P12-6491

M-4, C, S, T.....ALL
M-4-180C, S.....ALL
M-4-220, C, S, T.....ALL
M-180T.....ALL
M-5-180C.....ALL
MX-7-160, 180.....ALL
M-5-210C, TC.....ALL
M-5-235C.....ALL
M-5-220C.....ALL
M-6-180.....ALL
M-6-235.....ALL
M-7-235.....ALL

SWIFT (GLOBE)

P10-7150

GC-1A.....ALL
GC-1B.....ALL

TAYLORCRAFT

P10-7150

BC65.....ALL
BCS-65.....ALL
BC12-65.....ALL
BCS12-65.....ALL
BC12-D1.....ALL
BCS12-D1.....ALL
BC12D85.....ALL
BCS12D85.....ALL
BC12D-4-85.....ALL
BCS12D-4-85.....ALL
BF65.....ALL
BF12-65.....ALL
BFS65.....ALL
19, F19, F21.....ALL
DC-65.....ALL
DCO-65.....ALL
F22, A-C.....ALL

UNIVAR/AIRCOUPE

P10-7150

A-2, A2-A.....ALL
F-1, F-1A.....ALL

VARGA

P10-7150

2150A.....ALL

Notes:

- * - "AM" model will be phased out and replaced by the "P" model listed immediately above
- ** - AM105635FP is replaced by P10-6150
- *** - All aircraft modified by SK402-27



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