

RAPCO INC. DE-ICE APPLICATION GUIDE

FAA-PMA Approved De-icer, Wire Harness, and Brush Replacement Parts for BFG and McCauley Propeller De-Ice Systems

For reference only. For installation eligibility refer to the FAA-PMA Supplement.

Some aircraft models or particular serial numbers may have applications other than those listed in this guide.

Consult the appropriate aircraft parts catalogue, maintenance manual or equipment list when selecting a part for installation.

To convert a BFG part number to a RAPCO part number replace the 2E, 3E or 4E with RA and add 100 to the number.

To convert a McCauley part number to a RAPCO simply add RA to the beginning of the part number.

Aircraft Manufacturer and Model Notes	Propeller Model	De-icer / Prop Boot	Wire Harness & Hub Extender	Solid Block Assembly	Modular Brush Assembly	Brush Module (Quantity)	Brush (Quantity)
Aero Commander / Gulfstream / Rockwell / Twin Commander							
500 Aero Commander. w/ Colemill Conv.	HC-A3VF HC-A2XF-2	RA38572** RA1288-3	On Boot	4E1387-3*			RA1543-1 (2) & RA1543-2 (1)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
500A	HC-A2XF-2	RA1288-3	On Boot	4E1350, -1*			RA1306-1 (3)
				4E1350-4*			RA1543-2 (3)
500A, w/ Colemill Conv. IO-520-E	HC-A3XF-2B	RA1288-3	On Boot	4E1387-3*			RA1543-2 (3)
					RA2146-2	RA2111U-ROD (3)	RA1543-7 (3)
500A, w/ Colemill Conv. IO-520-E	HC-A3XF-2B	RA1288-3	On Boot	4E1387-3*			RA1543-1 (2) & RA1543-2 (1)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
500B, S, U, w/ 90 Amp Gen. w/ 70 Amp Gen.	HC-A3XK-2 / VK2 HC-A3VK-2 / VK2	RA1288-3 RA1288-4	On Boot On Boot	4E1350, -1*			RA1306-1 (3)
				4E1350-4*			RA1543-2 (3)
500S SN. 3116 & up w/ 70 Amp or 100 Amp Alt.	HC-C3YR-2	RA1701-7 4E2200-10*	RA2067-2 RA2193-1				
500B, U, w/ 50 or 90 Amp Gen.	HC-A3XK/VK2 HC-A3VK-2	RA1288-3 4E2200-10*	On Boot RA2193-1	4E1350, -1*			RA1306-1 (3)
				4E1350-4*			RA1543-2 (3)
560A, E 680, E 720	H83X20	RA1288-3	On Boot	4E1311, -1*			RA1543-7 (3)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
560A, E 680, E 720	H83X20	RA1288-3	On Boot	4E1311-2*			RA1306-1 (2) & RA1306-2 (1)
					RA2144-1	RA2111U-ROD (3)	RA1543-1 (2) & RA1543-2 (1)
560F 680F, FL, FP, FLP	HC-B3Z30-2B HC-A3MVK-2A	RA1288-4	On Boot	4E1387-1*			RA1306-1 (2) & RA1306-2 (1)
		RA1288-3	On Boot	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)
680T, V, W, 681,	33LF-325	RA1288-10	4E2333-1*	4E2200-10*			RA1543-2 (1)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
685	HC-F3YN-2 HC-H3YN-2	RA1288-3 RA1701-7	On Boot RA2067-1	4E1387-1*			RA1306-1 (2) & RA1306-2 (1)
				4E1387-5*			RA1543-1 (2) & RA1543-2 (1)
685	HC-F3YN-2 HC-H3YN-2	RA1288-3 RA1701-7	On Boot RA2067-1				RA1543-7 (3)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
690	HC-B3TN-5CL	4E1601-5*	RA1989-2	4E1387-3, -5*			RA1543-1 (2) & RA1543-2 (1)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
690, A, B	HC-B3TN-5FL	RA1701-3	RA1989-2	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
690C, D 695, A	Dowty RotoI 324	4E2598-10*	RA2469-1		RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
		4E1601-10*					
700	HC-E3YR-2AF	RA1701-7	RA2067-1	4E1639*			RA1543-1 (2) & RA1543-2 (1)
720	HC-E4N-3P	RA1288-3	On Boot	4E1311, -1*			RA1543-2 (1)
				4E1311-2*			RA1306-1 (2) & RA1306-2 (1)
					RA2144-1	RA2111U-ROD (3)	RA1543-1 (2) & RA1543-2 (1)
							RA1543-7 (3)
Aerostar / Ted Smith / Piper							
600 601, 601P, 602P	HC-C3YR-2	RA1288-4	On Boot	4E1350-2*			RA1306-1 (3)
		4E2200-4*	On Boot	4E1350-5*			RA1543-2 (3)
PA-60-700P	Hartzell 3 Bl.				RA2146-1	RA2111U-ROD (3)	RA1543-7 (3)
			RA2150-2		RA2171	RA2111U-ROD (2)	RA1543-7 (2)

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Aircraft Manufacturer and Model Notes	Propeller Model	De-Icer / Prop Boot	Wire Harness & Hub Extender	Solid Block Assembly	Modular Brush Assembly	Brush Module (Quantity)	Brush (Quantity)	
Beechcraft / Hawker / Raytheon								
Beech 18	HC-B3	RA1288-3 RA1288-4	On Boot On Boot	4E1311, -1*			RA1306-1 (2) & RA1306-2 (1)	
				4E1311-2*			RA1543-1 (2) & RA1543-2 (1)	
Beech 18, w/ Volpar Conv.		RA1288-3 RA1288-5 4E2200-10*	On Boot RA1889-2 RA2192-2	4E1387-1*			RA1306-1 (2) & RA1306-2 (1)	
				4E1387-5*			RA1543-1 (2) & RA1543-2 (1)	
33, 35, 36, w/ 14 Volt.	2A36C23/C82 3A32C76	RA1314-3 4E2292-3*	On Boot On Boot	4E1387-3, -5*			RA1543-1 (2) & RA1543-2 (1)	
					RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)	
F33A, F33C, S35, V35A, 36, A36, w/ 14 or 28 Volt	HC-F3YR-1RF	4E2292-2* 4E2200-3*				RA2171	RA2111U-ROD (2)	RA1543-7 (2)
	PHC-C3YF-1RF	4E2200-2*			RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)	
F33A, 35-C33A A35B, S-35, V-35, A36TC, A36, B36TC, w/ 28 Volt.				C-40257*			RAC40256-1 (1) & RAC40256-2 (1)	
F33A, w/ McCauley Brush Block								
S-35, V-35	PCH-A3VF-4	RA1314-3	On Boot	4E1387-3, -5*			RA1543-1 (2) & RA1543-2 (1)	
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)	
V35, w/ 14 Volt.	2A36C82/C23 2A37C223	4E2200-2* 4E2200-8*			RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)	
V35B, w/ McCauley Brushes				C-40257*			RAC40256-1 (1) & RAC40256-2 (1)	
A36, w/ Colemill Conv.	HC-C4YF-1E	4E2200-2*			RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)	
A36, A36TC w/ Allison Turbine	HC-B3TF-7A	4E3048-10*	3E2507-1*		RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)	
A36, B36TC, w/ Hartzell Conv.	PHC-3CYF-1RF	4E2200-2*			RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)	
A36, B36TC, w/ McCauley Brush				C-40257*			RAC40256-1 (1) & RAC40256-2 (1)	
E50, F50, G50, H50, Twin Bonanza 65, Queen Air	HC-B3T/B3Z	4E1270* RA1288-3 4E2200-3*	On Boot On Boot	4E-1311-2*			RA1543-1 (2) & RA1543-2 (1)	
					RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)	
E50, F50, J50, Twin Bonanza 65-80, 65-88, Queen Air	HC-B3T/B3Z	RA1288-3 4E2200-3*	On Boot On Boot	4E1311*			RA1306-1 (2) & RA1306-2 (1)	
				4E-1311-2*			RA1543-1 (2) & RA1543-2 (1)	
B55, E55, Baron	BHC-C2YF-2C	RA1288-3 4E2271-10*	On Boot RA2194-2	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)	
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)	
B55, E55	PHC-C3YR-2	RA1288-3 4E2271-10*	On Boot RA2194-1	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)	
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)	
B55, E55	CHC-C2YF-2C	RA1701-7 4E2271-10*	4E1967-5* RA2194-1	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)	
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)	
B55, E55	PHC-C3YF-2	RA1701-7 4E2271-10*	RA2067-4 RA2194-1	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)	
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)	
B55, E55, No A/C	BHC-C2YF-2C PHC-C3YF	4E2271-10*	RA2150-2		3E2062-2	RA2111U (2)	RA1543-7 (2)	
C55	2AF36C39 2AF34/C55	RA1288-3	On Boot		RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)	
					RA2142-2	RA2111U-ROD (3)	RA1543-7 (3)	
E55, 58 Baron	PCH-J3YF-2 BCH-J2YF-2	4E2271-10*	RA2150-2		3E2171	RA2111U (2)	RA1543-7 (2)	
	HC-F3YR-2	RA1288-3 4E2271-10* RA1701-7	On Boot RA2194-1 RA2067-4	4E1639*			RA1543-1 (2) & RA1543-2 (1)	
56TC, Baron, 60, Duke Series								
56TC, Baron, 60, Duke	HC-F2YR-2	RA1288-3	On Boot RA1656 Hub Ext.	4E1639*			RA1543-1 (2) & RA1543-2 (1)	
58, Baron	HC-J2YF-2C	RA1288-3	On Boot	4E1350-3*			RA1306-2 (3)	
58	PHC-3YF-2	RA1288-3	On Boot	4E1350-5*		RA2146-1	RA2111U-ROD (3)	RA1543-7 (3)
							RA1543-2 (3)	
58 Series	BCH-J2YF-2C	RA1701-7 4E1601-10* 4E2271-10*	4E1967-5 RA2067-3 RA2150-2	4E1350-5*			RA1543-7 (3)	
	HC-J3YF-3UF				RA2146-3	RA2111U-ROD (3)	RA1543-7 (3)	
58	PCH-J3YF-2	4E2271-10*	RA2150		RA2171	RA2111U (2)	RA1543-7 (2)	
58	D3AF32C35	RA1288-3	On Boot	4E1350-5*			RA1543-2 (3)	
					RA2146-3	RA2111U-ROD (3)	RA1543-7 (3)	

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Aircraft Manufacturer and Model Notes	Propeller Model	De-Icer / Prop Boot	Wire Harness & Hub Extender	Solid Block Assembly	Modular Brush Assembly	Brush Module (Quantity)	Brush (Quantity)
58, 58A, 58P, 58PA, 58TC, 58TCA w/ McCauley Brushes				C-40257*			RAC40256-1 (1) & RAC40256-2 (1)
65, Queen Air w/ IO-720 Conv. 65-80, 65-A88-8800, 65-B80, 65-88, A65, 70, Queen Air 65-90	HC-A3VK-2A	RA1288-4		4E1350-5*	RA2146-1	RA2111U (3)	RA1543-2 (3) RA1543-7 (3)
	HC-B3TN-2	RA1288-3	On Boot	4E1387, -1* 4E1387-5*	RA2142-1	RA2111U-ROD (3)	RA1306-1 (2) & RA1306-2 (1) RA1543-1 (2) & RA1543-2 (1) RA1543-7 (3)
65-90, 99, Airliner 100, King Air	HC-B3TN-3	RA1288-3	On Boot	4E1311, -1* 4E1311-2*	RA2144-1	RA2111U-ROD (3)	RA1306-1 (2) & RA1306-2 (1) RA1543-1 (2) & RA1543-2 (1) RA1543-7 (3)
		4E2200-10*	RA2192-2		RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
65-90, 99, Airliner 100, 200, King Air	HC-B3TN-3	RA1288-5	RA1989-2	4E-1311-2*	RA2144-1	RA2111U-ROD (3)	RA1543-1 (2) & RA1543-2 (1) RA1543-7 (3)
90, 99, 200	HC-B3TN-3	4E2271-10*	RA2192-4		RA2190-1	RA2111U (2)	RA1543-7 (2)
C90A	HC-E4N-3N	4E2200-10*	RA2192-2		RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)
F90, A100	HC-B4TN-3	4E2200-10* RA1288-5	RA2192-2, -3 RA1989-3		RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)
95-55, Baron 95-A55, 95-B55	3AF32C75	RA1288-3	On Boot	4E1387, -1* 4E1387-5*	RA2142-2	RA2111U-ROD (3)	RA1306-1 (2) & RA1306-2 (1) RA1543-1 (2) & RA1543-2 (1) RA1543-7 (3)
B100, King Air	HC-B4TN-5C/F	RA1288-5	RA1989-2	4E1387-5*	RA2142-1	RA2111U-ROD (3)	RA1543-1 (2) & RA1543-2 (1) RA1543-7 (3)
		4E2200-10*	RA2192-6		RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)
200, King Air	HC-E4N-3G	4E2271-10*	RA2192-4		RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)
A200CT, B200, C, T, CT w/ McCauley Brushes	4HFR34C754, C755	RA2252-4	RA40330	C-40363*			RAC40371-1 (1) & RAC40371-2 (1)
B200, C, CT, T, w/ McCauley Brushes	3GFR34C702		RA40330	C-40257*			RAC40256-1 (1) & RAC40256-2 (1)
300	HC-E4A-2A-2A	RA2271-14	3E2360-5	4E3096-1*			RA2620-1 (6)
300, 350	HC-B4MP-3	4E2575-7*	RA2117-8		RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)
1900 Airliner	HC-B4MP-3	4E2560-10*	RA2192-2		RA2190-3	RA2111U-ROD (2)	RA1543-7 (2)
				4E3197-1*			RA2620-1 (6)
1900D	HC-B4MP-3	4E3400-1* 4E3017-1	RA2626-1	4E3096-1*			RA2620-1 (6)
Bombardier - see DeHavilland							
British Aerospace - see Handley Page							
Britten Norman / Pilatus BN							
BN-2 Islander BN-2A Islander BN-2A Mark III Trilander	HC-C2YK-2B	RA1288-4 4E2200-4*	On Boot RA2150	4E1350-2* 4E1350-5* 4E1908-1*			RA1306-1 (3) RA1543-2 (3) RA1543-1 (3)
					RA2146-1	RA2111U-ROD (3)	RA1543-7 (3)
BN2T	HC-C3YF-2CF	4E2271-4* 4E2271-10*	RA2150 RA2150	4E1350-2* 4E1350-5* 4E1908-1*			RA1306-1 (3) RA1543-2 (3) RA1543-1 (3)
					RA2146-1	RA2111U (3)	RA1543-7 (3)
BN2T	HC-C3YF-5F	4E1301-1*	RA2150		RA2162-2	RA2111U (2)	RA1543-7 (2)
CASA / Construcciones Aeronauticas							
C212	HC-B3TN-5	RA1288-3	On Boot	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
C212-100	HC-B4TN-5EL	4E1601-5*	RA1989-2	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
C212-200	HC-B4MN-5AL	4E2336-10* 4E2336-12*	RA2192-2 RA2192-2		RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)
Cessna							
TR182 w/ BFG	B2D34C214 2				RA2171	RA2111U-ROD (2)	RA1543-7 (2)
T182, TR182, w/ McCauley	B2D32C407/82NDA-3 B2D32C407/82NDA-3			C-40010* C-40179*			RAB40112 (2) RAB40189 (2)

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Aircraft Manufacturer and Model Notes	Propeller Model	De-Icer / Prop Boot	Wire Harness & Hub Extender	Solid Block Assembly	Modular Brush Assembly	Brush Module (Quantity)	Brush (Quantity)
206H, w/ Solyo Conv. T206H TU206G U206G	HC-C3YN-5A	4E2200-10* 4E2271-10*	RA2150 RA2150		RA2162-1	RA2111U-ROD (2)	RA1543-7 (2)
TU206G, U206G, w/ McCauley Brushes	D3A32C402/C404			C-40187* C-40055*			RAB40193 (2) RAB40046 (2)
208 210, w/ 14 Volt.	HC-B3MN-3 E2A34C70 D3A32C88	4E2336-12* RA1314-3 RA1314-3 RA2815-1	RA2192-2 On Boot On Boot	4E1387-4, -6*	RA2190-1 RA2142-1	RA2111U-ROD (2) RA2111U-ROD (3)	RA1543-7 (2) RA1543-1 (2) & RA1543-2 (1) RA1543-7 (3)
210, w/ 28 Volt	E2A34C70 D3A32C88	4E1188-2* 4E1188-2*	On Boot On Boot	4E1387-4, -6*	RA2142-1	RA2111U-ROD (3)	RA1543-1 (2) & RA1543-2 (1) RA1543-7 (3)
210N, R, P210N, T210N, R, w/ McCauley Brush Brushes				C-40055* C-40187*			RAB40046 (2) RAB40193 (2)
310	PCH-C3YF-2UF PCH-J3YF-2UF	4E1601-10* 4E1601-10*	RA2067-3 RA2067-3	4E1294*	RA2142-1 RA2142-2	RA2111U-ROD (3) RA2111U-ROD (3)	RA1306-3 (3) RA1543-7 (3)
310 Series thru H	HC-A2XF-2 HC-A3VF-2 HC-A3MVF-2	RA1288-3 RA1288-3 RA1288-3	On Boot On Boot On Boot	4E1294*	RA2142-1 RA2142-2	RA2111U-ROD (3) RA2111U-ROD (3)	RA1306-3 (3) RA1543-7 (3) RA1543-7 (3)
310 Series J-P			RA2192-1	4E1294*	RA2142-1 RA2142-2	RA2111U-ROD (3) RA2111U-ROD (3)	RA1306-3 (3) RA1543-7 (3) RA1543-7 (3)
310P, Q, w/ McCauley Brushes	D2AF34C71 3AF32C87			C-40055*			RAB40046 (2)
310R SN. 310R0938 - 310R2109 w/ Colemill Conv.	D3A32C87/82NC-8		RAC165013-0604				RAB40012 (2)
T310P, Q, w/ McCauley Brushes	D2AF34C71			C-40010*			RAB40012 (2)
T310P, Q, R, w/ McCauley RAM Conv.	3AF32C87 PCH-C3YF-2UF	4E1601-14*	RA2067-3	C-40010*			RAB40012 (2) RAB40012 (2)
T310R SN. 310R0938-310R2109	3AF32C87	RA2056-4	RAC165013-0604	C-40010*			RAB40012 (2)
320	HC-A2XF-2	RA1288-3	On Boot				
320D, E, F	PCH-C3YF-2UF	4E1601-14*	RA2067-3				
336, 337 Series	D2AF34C59 D2AF34C300, C301	RA1288-3 RA1288-3	On Boot On Boot	3E1387* 3E1387-5*	RA2142-1	RA2111U-ROD (3)	RA1306-1 (2) & RA1306-2 (1) RA1543-1 (2) & RA1543-2 (1) RA1543-7 (3)
340, 340A	PCH-C3YF-2UF PCH-C3YF-2UF	4E1601-10* 4E1601-14*	RA2067-3 RA2067-3				
340A, w/ McCauley 340A S/N 340A0314-340A1215	3AF32C87 3AF32C505			C-40010* C-40179*			RAB40012 (2) RAB40189 (2)
401A, B	3AF32C504	RA2948	RA2192-1				
402, w/ AJI Conv.	HC-B3TF-7	RA1288-3 4E2200-10*	On Boot RA2192-3	4E1387-5*	RA2142-1	RA2111U-ROD (3)	RA1543-1 (2) & RA1543-2 (1) RA1543-7 (3)
402 A, B, C	3AF32C505	RA2948	RA2192-3				
402C, w/ RAM Conv.	PCH-C3YF-2UF	4E1601-14*	RA2067-3				
402B S/N 402B1238 & up 402B S/N 402B1238 & up			RAC165013-0602 RAC165013-0604				
402C, w/ McCauley	3AF32C93 3AF32C505			C-40010* C-40179*			RAB40012 (2) RAB40189 (2)
S/N 402C0001-402C0406			RAC165013-0604				
404	3FF32C501	RA2252-2	RA2171-2	C-40010* C-40179*			RAB40012 (2) RAB40189 (2)
414 Series	3AF32C93	RA2056-4					
414A, w/ RAM Conv. w/ McCauley Brush Brushes	PCH-C3YF-2UF	4E1601-14*	RA2067-3	C-40010* C-40179*			RAB40012 (2) RAB40189 (2)
414, S/N 414-0950 & up			RAC165013-0604				
414A S/N 414A0001-414A0607 w/ McCauley Brush Brushes	3AF32C505	RA2948	RAC165013-0604	C-40010* C-40179*			RAB40012 (2) RAB40189 (2)
421B	3AF34C92		RA2192-1				
421C	3FF32C501 PCH-C3YF-2UF	RA2252-2 4E1601-14*	RA2171-2 RA2067-3				
w/ McCauley Brush Brushes				C-40010* C-40179*			RAB40012 (2) RAB40189 (2)
425 w/ McCauley Brushshes	HC-B3TN-3	RA1288-6	4E1989-7*		RA2144-1	RA2111U-ROD (3)	RA1543-7 (3) RAB40012 (2) RAB40189 (2)
441	HC-B3TN-5	4E1188-6*	RA1989-2	4E1311-3*	RA2144-2	RA2111U-ROD (3)	RA1543-1 (2) RA1543-2 (1) RA1543-7 (3) RAB40046 (2) RAB40193 (2)
441, w/ Exec. Wings Conv. 441, w/ McCauleyBrushes	HC-E4N-5	4E2271-10*	RA2192-4		RA2190-2	RA2111U-ROD (2)	RA1543-7 (2) RAB40046 (2) RAB40193 (2)

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Aircraft Manufacturer and Model Notes	Propeller Model	De-Icer / Prop Boot	Wire Harness & Hub Extender	Solid Block Assembly	Modular Brush Assembly	Brush Module (Quantity)	Brush (Quantity)
DeHavilland / Bombardier							
DHC-4 w/ Pen Turbo Conv.	HC-B5MA-3A				RA2190-2	RA2111U-ROD (2)	RA1543-7 (2)
DHC-6 Twin Otter	HC-B3TN-3	RA1288-5	RA1989-2	4E1311-2*			RA1543-1 (2) RA1543-2 (1)
DHC-6, w/ Raisbeck Conv.					RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)
DHC-6-300, w/ Field Av. Conv.	HC-D4N-3A				RA2190-2	RA2111U-ROD (2)	RA1543-7 (2)
Dornier							
DO128-6	HC-B3TN-3D	RA1288-5	RA1989-2		RA2144-1	RA2111U (3)	RA1543-5 (3)
DO228			RA2469-1		RA2142-1	RA2111U (3)	RA1543-5 (3)
Douglas							
DC3/C47, w/ U. S. Aircraft Conv.	Hartzell 5 Bl.	RA1701-7	RA1989-4		RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
DC3-3C, w/ Basler Conv.	HC-B5MA-3	4E2595-7*			RA2190-2	RA2111U-ROD (2)	RA1543-7 (2)
Embraer							
EMB110 P1, P2 Bandeirante	HC-B3TN-3	RA1288-6 4E2200-10*	RA1989-2 RA2192-2	4E1311-2*			RA1543-1 (2) & RA1543-2 (1)
EME-120	HC-B4TN-3	RA1288-5			RA2144-1	RA2111U (3)	RA1543-5 (3)
EMB121A1	HC-B4TN-3						
Evangel Air							
4300/300				4E1350-5*			RA1543-2 (3)
					RA2146-1	RA2111U-ROD (3)	RA1543-7 (3)
Fairchild / Swearingen							
Merlin IIA, IIB	Hartzell 3 Bl.	RA1288-3	On Boot	4E1311, -1* 4E1311-2*			RA1306-1 (2) & RA1306-2 (1)
					RA2144-1	RA2111U-ROD (3)	RA1543-1 (2) & RA1543-2 (1)
SA26-T, -AT,	HC-B3TN-5	RA1288-3 RA1288-4	On Boot	4E1387-1*			RA1306-1 (2) & RA1306-2 (1)
SA226-T, -AT, -TC Metro	HC-B3TN-5C	RA1288-4 4E2200-10*	On Boot RA2192-2	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
SA226-T, -AT, -TC	HC-B3TN-3	RA1288-3 RA1288-4	On Boot	4E1311, -1* 4E1311-2*			RA1306-1 (2) & RA1306-2 (1)
					RA2144-1	RA2111U-ROD (3)	RA1543-1 (2) & RA1543-2 (1)
SA226-T, -AT, -TC	HC-B3TN-5C	RA1288-6 4E2200-10*	RA1989-2 RA2192-2	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
SA226-T(B), SA227-AC, -TC, TT Metro	HC-B4TN-5EL	4E1601-5* 4E1601-10* 4E2271-10*	RA1989-2 RA2469-1 RA2192-2		RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
SA227-AT, -AC, -BC, -CC, DC, w/ McCauley Brushes	4HFR34C652		RA40330 RA40387	C-40331*			RAB40332 (2)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
G.A.F. / Partenavia							
N-22B Nomad	HC-A3VF7	RA1288-5	RA1989-2	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)
					RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
Gulfstream - see Aero Commander							
Handley Page / British Aerospace							
137 Jetstream	HC-B3TN-3D	RA1288-5	RA1989-2	4E1311-2*			RA1543-1 (2) & RA1543-2 (1)
					RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
Harbin							
Y1-11B	PHC-C3YF-2KUF	4E2271-10*	RA2150	3E2414-3*			RA2426-3
					RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
Y-12	HC-B3TN-3B	RA1288-5	RA1989-2	3E2414-3*			RA2426-3
					RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
Hawker - see Beechcraft							
Israel Aircraft							
101 Arava	HC-B3TN-3D	RA1288-5	RA1989-2	4E1311-3*			RA1543-1 (2) & RA1543-2 (1)
					RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
Korean Aerospace Industries							
KT-1	HC-B3TN-3C	3E2292-2*			RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)

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Aircraft Manufacturer and Model Notes	Propeller Model	De-Icer / Prop Boot	Wire Harness & Hub Extender	Solid Block Assembly	Modular Brush Assembly	Brush Module (Quantity)	Brush (Quantity)
Mitsubishi							
MU-2	HC-B3TN-5	RA1288-3	On Boot	4E1387-1*			RA1306-1 (2) & RA1306-2 (1)
		RA1288-4	On Boot	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)
	HC-B4TN-5L	RA1288-5	RA2192-2				RA1543-7 (3)
		4E2200-10*	RA2192-2				RA1543-7 (3)
		RA1288-7	RA1989-4		RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
		4E2271-10*	RA2192-2				
Mooney							
201 (M20J), w/ 14 Volt	B2D34C214	4E2351-4*			RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
201 (M20J), w/ 28 Volt	B2D34C214	4E2200-4*			RA2190-2	RA2111U-ROD (2)	RA1543-7 (2)
231 (M20K)	HO-V123	4E2351-3*			RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
252 (M20K), w/ 28 Volt	2A34C216	4E2200-3*			RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)
M20K, w/ 14 or 28 Volt	PHC-J2YF-1B, or 2A34C216	4E2351-3*					
M20K, w/ 28 Volt	PHC-J3YF-1RF	4E2200-3*					
		4E2351-3*					
Partenavia - see Vulcanair or G.A.F.							
Pilatus - also see Britten Norman							
PC-6 Series	HC-B3TN-3	RA1288-5	RA1989-2	4E1311-2*			RA1543-1 (2) & RA1543-2 (1)
		4E2200-10*	RA2192-2		RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
PC-7	HC-B3TN-3	4E2200-10*	RA2192-2		RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)
PC-7, PC-9	4E2271-10*	3E2092-4*	RA2192-4		RA2144-2	RA2111U-ROD (3)	RA1543-7 (3)
PC-12, PC-12/45, PC-12/47	HC-E4A-3D		RA2460-4 RA2460-4HD				
Piper							
PA-23, 250 Aztec, w/ 14 Volt	HC-E2YR-2B	RA1314-2					
PA-23, 250 Aztec, w/ 28 Volt	HC-E2YR-2B	RA1288-3	On Boot	4E1515-3*			RA1306-1 (3)
				4E1350-5*			RA1543-2 (3)
						RA2146-1	RA2111U-ROD (3)
PA-30, -39 Twin Comanche, w/ Miller Conversion	HC-C2YK-2	4E1314-4*		4E1639*			RA1543-1 (2) & RA1543-2 (1)
PA31 Navajo / Chieftian Series (Non-Pressurized)							
Non Counter Rotating Propellers, both Props, or Left Prop on C/R Equipped Aircraft	HC-E2YR-2	RA1288-3	On Boot	4E1350-2*			RA1306-1 (3)
	BHC-3YR-2A	4E2271-10*	RA1649 Hub Ext. RA2194-1	4E1350-5*			RA1543-2 (3)
Counter Rotating Right Prop. Only, If Air Cond. Equiped see below.	HC-E3YR-2ALF, ALFT	RA1701-3	On Boot	4E1350-2*	RA2146-1	RA2111U-ROD (3)	RA1543-7 (3)
			RA1649 Hub Ext.	4E1350-5*			RA1306-1 (3)
With Air Conditioning on Chieftian, Brushes for Right Engine	HC-E3YR-2ALF, ALFT			4E1908-1*			RA1543-2 (3)
PA-31P (Pressurized)	HC-C3YN-2L	RA1701-3	On Boot	4E1387-4, -6*			RA1543-1 (2) & RA1543-2 (1)
		4E2200-10*	3E2094-3*		RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
PA-31T Cheyenne, PA-31T1 PA-31T2	HC-B3TN-3B	RA1288-5	RA1989-2	4E1311-2*			RA1543-1 (2) & RA1543-2 (1)
					RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
PA-31T1A, -31T2A Cheyenne, PA-31T3 T-1040 Commuter	HC-B3TN-3B	4E2200-10*	RA2192-2		RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)
PA-32-300, & 301	HC-E2YR-1B	4E2151-3*	On Boot	4E1639*			RA1543-1 (2) & RA1543-2 (1)
	HC-E3YR-1RF	4E2351-3*	On Boot				
	HC-C2YK-1	RA1314-2					
PA-34-200	HC-C2YK-2	RA1314-2 (Left)	On Boot	4E1908-1*			RA1543-2 (3)
		4E2303-10* (Left)	RA2235-5		RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
	HC-C2YK-2	RA1995-2 (Right)	On Boot				
		4E1692-10* (Right)	RA2194-1				
PA-34-200T	BHC-C2YF-2CLKF	4E1188-10* (Left)	4E2235-5		RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
	BHC-C2YF-2CLKF	4E1601-10* (Right)	RA2067-3				
PA-34-200T, -220T, 14 Volt	BHC-C2YF-2CLKF	4E1214-10* (Left)	4E2235-5	4E1387-5*			RA1543-1 (2) & RA1543-2 (1)
		4E1895-10* (Right)	RA2067-3		RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
PA-34-200T, -220T, 14 Volt	3AF34C502/503 or 3AF34C508/509	4E2303-10* (Left)	RA2194-1		RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)
		4E2292-10* (Right)	RA2194-1				
PA-34-200T, -220T, 28 Volt	3AF34C502/503 or 3AF34C508/509	4E2271-10* (Left)	RA2192-5		RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)
		4E2200-10* (Right)	RA2192-5				
PA-34-200T, -220T, 28 Volt	3AF32C522 3AF32C523	4E2271-10* (Left)	RA2192-5		RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)
		4E2200-10* (Right)	RA2192-5				
PA-34-220T, 28 Volt	BHC-J2YF-2CUF BHC-J2YF-2CLUF	4E2271-10* (Left)	3E2150-1*		RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)
		4E2200-10* (Right)	3E2150-1*				
PA-39 see PA-30							
PA42, Cheyenne, PA42 -720	HC-B3TN-3B	RA1288-5	RA1989-2	4E1311-2*			RA1543-1 (2) & RA1543-2 (1)
					RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)

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Aircraft Manufacturer and Model Notes	Propeller Model	De-Icer / Prop Boot	Wire Harness & Hub Extender	Solid Block Assembly	Modular Brush Assembly	Brush Module (Quantity)	Brush (Quantity)
PA-44 -180 Seminole, W/ 2 Blade	HC-E2YR-2C HC-E2YR-2CL	4E2303-10* (Left) 4E2292-10* (Right)	RA2150 RA2150		RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)
PA-44 -180 w/ 3 Blade Prop	HC-C3YR-2 HC-C3YR-2L	4E2303-10* (Left) 4E2292-10* (Right)	RA2150 RA2150		RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)
PA-46	HC-B3TN-3ACX	4E3436-10*	RA2192-2		RA2190-1	RA2111U-ROD (2)	RA1543-7 (2)
PA-46-310P Malibu	BCH-C2YF-1BF	4E2200-3*			RA2171	RA2111U-ROD (2)	RA1543-7 (2)
PA-46-310P Malibu	PCH-G3YF-1E	4E3997-1*			RA2171	RA2111U-ROD (2)	RA1543-7 (2)
PA-46-310P, -350P	HC-12YR-1BF	4E2200-3*			RA2171	RA2111U-ROD (2)	RA1543-7 (2)
PA-46-310P, -350P	HC-E4N-3M	4E3462-1*			RA2144-2	RA2111U-ROD (2)	RA1543-7 (2)
PA-46-350P Malibu Meridian	HC-13YR-1E	4E3997-1*			RA2171	RA2111U-ROD (2)	RA1543-7 (2)
PA-60-700P - see Aerostar							
Raytheon - see Beechcraft							
Rockwell - see Aero Commander							
Short Brothers							
SC7	HC-B3TN-5 HC-B4TN-5EL HC-B4TN-5EL	RA1288-3 RA1288-6 4E1601-5* RA1288-5	On Boot RA1989-2 RA1989-2 RA1989-2	4E1387-1 4E1387-5*			RA1306-1 (2) & RA1306-2 (1) RA1543-1 (2) & RA1543-2 (1)
SD3-30	HC-B5MP-3	RA1701-7 4E2271-10*	RA1989-4 RA2192-4	4E1311-3*	RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
SD3-60	HC-B5MP-3C	4E2595-7* 4E2595-10*	RA2117-4 RA2192-2		RA2144-1 RA2190-1	RA2111U-ROD (3) RA2111U-ROD (2)	RA1543-7 (3) RA1543-7 (2)
SIAI-Marchetti							
S210	HC-C2YR-2B	RA1288-4	On Boot	4E1693*			RA1543-1 (2) & RA1543-2 (1)
SF600TP	HC-B3TF-7A	4E2824-10*	RA2192-2		RA2162-2	RA2111U-ROD (2)	RA1543-7 (2)
Socata							
TBM-700	HC-4N-3	4E2271-10*	RA2192-4		RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
Swearingen - see Fairchild							
Turbolet							
L-410	HC-B3TN-3D HC-B4TN-3	RA1288-5	RA1989-2	4E1311-2*			RA1543-1 (2) & RA1543-2 (1)
					RA2144-1	RA2111U-ROD (3)	RA1543-7 (3)
Twin Commander - see Aero Commander							
Vulcanair / Partenavia							
P68	HC-C2YK-2CUF HC-C3YK-2	RA1288-4	On Boot	4E1639*	4E1639*		RA1543-1 (2) & RA1543-2 (1)
P68TC	HC-B3TF-7A				RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)
AP68TP	HC-B3TF-7	4E2200-10*	RA2192-2		RA2162-1	RA2111U-ROD (2)	RA1543-7 (2)
AP68TP300			RA2192-2		RA2142-1 RA2162-2	RA2111U-ROD (3) RA2111U-ROD (2)	RA1543-7 (3) RA1543-7 (2)
AP68TP600			RA2192-2		RA2142-1	RA2111U-ROD (3)	RA1543-7 (3)

* OEM part number

** EASA approved

For reference only.

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