

# **RAPCO inc.** BRAKE COMPONENT CROSS REFERENCE with Minimum Wear Thickness Specifications

## **FAA-PMA Approved**

Brake Disc, Linings, Overhaul Kits, Rivets, Mounting Pins, Pressure Plates, Shim Insulators, Drive Keys

### **Brake Discs**

RAPCO PN	Cleveland PN		McCauley PN	Piper PN	Bolt Holes Quantity - Size	Slotted Disc	Minimum Wear Thickness In./mm
	Current	Superseded					
RA164-00206	164-00206	164-2F		754-650	3 - 1/4"		***
RA164-00300	164-00300	164-3			3 - 5/16"		0.205" / 5.207 mm
RA164-00400	164-00400	164-4			3 - 1/4"		0.162" / 4.115 mm
RA164-00500	164-00500	164-5		754-518 758-517	3 - 1/4"		0.157" / 3.988 mm
RA164-00700	164-00700	164-7			3 - 1/4"		0.345" / 8.763 mm
RA164-00806	164-00806	164-8F			9 - 1/4"		0.334" / 8.484 mm
RA164-00900	164-00900 164-00100	164-9 164-1		754-530	3 - 1/4"		0.227" / 5.766 mm
RA164-01000	164-01000	164-10		754-831	6 - 1/4"		0.345" / 8.763 mm
RA164-01300	164-01300	164-13		754-528	3 - 1/4"		0.227" / 5.764 mm
RA164-01406	164-01406	164-14F			9 - 1/4"		0.334" / 8.484 mm
RA164-01501	164-01501	164-15A			3 - 5/16"		0.327" / 8.306 mm
RA164-01506	164-01506	164-15F			3 - 5/16"		0.327" / 8.306 mm
RA164-01600	164-01600	164-16			3 - 5/16"		0.157" / 3.988 mm
RA164-01700	164-01700	164-17		754-617	3 - 1/4"		0.167" / 4.242 mm
RA164-01900	164-01900	164-19		754-545	3 - 5/16"		0.227" / 5.766 mm
RA164-02000	164-02000	164-20		754-535	3 - 5/16"		0.205" / 5.207 mm
RA164-02201	164-02201	164-22A		754-554	3 - 5/16"		0.345" / 8.763 mm
RA164-02300	164-02300	164-23		754-643	3 - 5/16"		0.345" / 8.763 mm
RA164-02504	164-02504 164-02501	164-25A			3 - 5/16"		0.445" / 11.303 mm
RA164-02505	164-02505 164-02503 164-02502	164-25C 164-25B			3 - 5/16"		0.445" / 11.303 mm
RA164-02601	164-02601	164-26A			3 - 5/16"		0.205" / 5.207 mm
RA164-02706	164-02706	164-27F			6 - 5/16"		0.330" / 8.382 mm
RA164-02707	164-02707	164-27G			6 - 5/16"		0.330" / 8.382 mm
RA164-02800	164-02800	164-28			6 - 1/4"		0.227" / 5.766 mm
RA164-03006	164-03006	164-30F			9 - 1/4"		0.282" / 7.163 mm
RA164-03106	164-03106	164-31F			9 - 1/4"		0.163" / 4.140 mm
RA164-03206	164-03206	164-32F		754-651 760-538	3 - 1/4"		***
RA164-03300	164-03300	164-33		754-562	3 - 5/16"		0.235" / 5.969 mm
RA164-03506	164-03506	164-35F			9 - 1/4"		0.260" / 6.604 mm
RA164-03601	164-03601 164-03600	164-36A 164-36			3 - 5/16"		0.327" / 8.306 mm
RA164-03906	164-03906 164-03900	164-39F 164-39			9 - 5/16"		0.600" / 15.240 mm
RA164-04000	164-04000	164-40			3 - 1/4"		0.205" / 5.207 mm
RA164-04300	164-04300	164-43			3 - 1/4"		0.205" / 5.207 mm
RA164-04406	164-04406	164-44F			9 - 1/4"		0.334" / 8.484 mm
RA164-04800 *	164-04800	164-48			3 - 5/16"		0.327" / 8.306 mm
RA164-05006	164-05006 164-05000	164-50F 164-50		456-818	6 - 5/16"		0.475" / 12.065 mm
RA164-05500	164-05500 164-07600	164-55 164-76			9 - 5/16"	Slotted	0.492" / 12.497 mm
RA164-05700	164-05700	164-57		754-612	3 - 1/4"		0.525" / 13.335 mm
RA164-05806	164-05806	164-58F			9 - 5/16"		0.395" / 10.033 mm
RA164-06106	164-06106	164-61F			6 - 5/16"	Slotted	0.475" / 12.065 mm
RA164-06306	164-06306	164-63F			9 - 5/16"	Slotted	0.465" / 11.811 mm
RA164-06406	164-06406	164-64F			9 - 1/4"	Slotted	0.465" / 11.811 mm
RA164-06506	164-06506	164-65F			6 - 5/16"		0.240" / 6.096 mm
RA164-06700	164-06700	164-67			6 - 1/4"		0.220" / 5.588 mm
RA164-06900	164-06900	164-69			3 - 5/16"		0.205" / 5.207 mm
RA164-07200	164-07200	164-72			8 - 3/8"	Slotted	0.492" / 12.497 mm
RA164-07400	164-07400	164-74			8 - 5/16"	Slotted	0.492" / 12.497 mm
RA164-07500 *	164-07500	164-75			3 - 5/16"		0.205" / 5.207 mm
RA164-07700	164-07700	164-77		754-642	9 - 5/16"	Slotted	0.470" / 11.938 mm
RA164-07800	164-07800	164-78			6 - 5/16"	Slotted	0.450" / 11.43 mm

RAPCO PN	Cleveland PN		McCauley PN	Piper PN	Bolt Holes Quantity - Size	Slotted Disc	Minimum Wear Thickness In./mm
	Current	Superseded					
RA164-07906	164-07906 164-05200	164-79F 164-52			9 - 1/4"	Slotted	0.465" / 11.811 mm
RA164-08100 *	164-08100	164-81			6 - 5/16"	Slotted	0.450" / 11.430 mm
RA164-08200	164-08200	164-82			6 - 5/16"	Slotted	0.327" / 8.306 mm
RA164-08300	164-08300	164-83			6 - 5/16"		0.327" / 8.306 mm
RA164-08406	164-08406	164-84F			6 - 5/16"	Slotted	0.330" / 8.302 mm
RA164-08500	164-08500	164-85			3 - 1/4"		0.325" / 8.255 mm
RA164-09100	164-09100	164-91			9 - 5/16"	Slotted	0.492" / 12.497 mm
RA164-09900 *	164-09900	164-99			3 - 1/4"		0.275" / 6.985 mm
RA164-20206	164-20206	164-202F			9 - 5/16"		0.334" / 8.484 mm
RA164-20306	164-20306	164-203F			6 - 5/16"	Slotted	0.465" / 11.811 mm
RA164-20500	164-20500	164-205			6 - 5/16"	Slotted	0.525" / 13.335 mm
RA164-20600	164-20600	164-206		754-658	8 - 5/16"	Slotted	0.455" / 11.557 mm
RA164-20700	164-20700	164-207			8 - 5/16"	Slotted	0.410" / 10.414 mm
RA164-20806	164-20806	164-208F			6 - 5/16"	Slotted	0.475" / 12.065 mm
RA164-20900	164-20900	164-209			8 - 3/8"	Slotted	0.410" / 10.414 mm
RA164-21000	164-21000	164-210			6 - 3/8"	Slotted	0.436" / 11.074 mm
RA164-21100 *	164-21100	164-211			9 - 5/16"	Slotted	0.492" / 12.497 mm
RA164-21200 *	164-21200	164-212			9 - 5/16"		0.327" / 8.306 mm
RA164-21600	164-21600	164-216		754-686	6 - 5/16"	Slotted	0.405" / 10.287 mm
RA164-21900	164-21900	164-219			9 - 5/16"	Slotted	0.590" / 14.986 mm
RA164-22000	164-22000	164-220			8 - 3/8"	Slotted	0.360" / 9.144 mm
RA164-22201	164-22201	164-222A			9 - 5/16"	Slotted	0.537" / 13.640 mm
RA164-22202	164-22202	164-222B			9 - 1/4"	Slotted	0.537" / 13.640 mm
RA164-22400	164-22400	164-224			9 - 3/8"	Slotted	0.385" / 9.779 mm
RA164-22900	164-22900	164-229			8 - 3/8"	Slotted	0.410" / 10.414 mm
RA164-23000	164-23000	164-230			9 - 3/8"	Slotted	0.565" / 14.351 mm
RA164-23001	164-23001				9 - 3/8"	Slotted	0.582" / 14.783 mm
RA164-23002	164-23002				9 - 3/8"	Slotted	0.582" / 14.783 mm
RA164-24200	164-24200	164-242			3 - 1/4"		0.167" / 4.242 mm
RA164-24400	164-24400	164-244			3 - 5/16"		0.290" / 7.366 mm
RA164-30195	164-30195	164-09300 164-93	B-30195		6 - 5/16"		0.190" / 4.826 mm
RA164-30388	164-30388	164-09700 164-97	C-30388		6 - 5/16"		0.325" / 8.255 mm
RA164-30398	164-30398	164-09600 164-96	C-30398		6 - 5/16"		0.325" / 8.255 mm
RA164-30414	164-30414	164-09500 164-95	C-30414		6 - 5/16"		0.325" / 8.255 mm
RA164-30440	164-30440	164-09200 164-92	B-30440		6 - 5/16"		0.190" / 4.826 mm
RA164-30615-1	164-30615-1	164-08800 164-88	C-30615-1 C-30615-4		3 - 5/16"		0.190" / 4.826 mm
RA164-30615-2	164-30615-2	164-08900 164-89	C-30615-2		3 - 5/16"		0.330" / 8.382 mm
RA164-30615-3	164-30615-3	164-09000 164-90	C-30615-3		3 - 5/16"		0.330" / 8.382 mm

\* Asteriks denotes that the particular disc is for an experimental aircraft and not FAA approved for installation on US TC'd aircraft.

\*\*\* For minimum wear thickness on Piper Aztec brake disc RA164-00206 or RA164-03206 perform the following procedure.

First measure the linings to make sure they are each above the minimum wear of 0.100 inch or ( 0.76 mm ) thick, if not replace.

Next measure the cumulative thickness of the two linings, the pressure plate and the brake disc.

If the cumulative thickness of these four items is less than 1.00 inch ( 25.4 mm ) the disc is considered to be

below minimum wear thickness and should be replaced. For reference only.

## Linings

For Minimum Wear Thickness see notation below.

RAPCO PN		Cleveland PN		McCauley PN	Beechcraft PN	Cessna PN	Piper PN	# Rivet Holes or Mounting Holes	Rivets & Mounting Pins
Current	Superseded	Current	Superseded						
<b>Metallic (Sintered Steel)</b>									
RA066-02200	RA66-22	066-02200	66-22			66-22	579-467	2 Mounting Holes	RA177-00300
RA066-03300	RA66-33	066-03300	66-33			66-33	752-363	2 Mounting Holes	RA177-00300, or RA177-00400
RA066-04400	RA66-44	066-04400	66-44					2 Mounting Holes	RA177-00300
RA066-06200	RA66-62 RA66-19 RA66-105M	066-06200	66-62 66-19			66-36	761-197 752-336	2 Mounting Holes 2 Mounting Holes	RA177-00300
RA066-06400		066-06400	66-64					2 Mounting Holes	RA177-01600
RA066-06500	RA66-65 RA66-15 **	066-06500	66-65				761-196 752-335 **	2 Mounting Holes 4 Mounting Holes	RA177-00300
RA066-06600	RA66-66	066-06600	66-66				761-211	2 Mounting Holes	RA177-01600
RA066-06700		066-06700						2 Mounting Holes	RA177-00300
RA066-06800	RA66-68	066-06800	66-68				761-212	2 Mounting Holes	RA177-01600
RA066-07300		066-07300	66-73					3 Mounting Holes	RA177-01600
RA066-09000		066-09000	66-90 66-79					3 Mounting Holes & 1 Rivet Holes	RA177-01600 & RA105-00200
RA066-09100		066-09100	66-91					Direct Mounting	None
RA066-09200		066-09200	66-92					Direct Mounting	None
RA066-09700		066-09700	66-97					2 Mounting Holes	RA177-00300
RA066-10000		066-10000	66-100					3 Mounting Holes & 1 Rivet Holes	RA177-01600 & RA105-00200
RA066-15300		066-15300						2 Mounting Holes	RA177-00300
<b>Organic (Semi Metallic)</b>									
RA066-10500	RA66-105	066-10500	066-03000 66-105 66-55 (HD) 66-30		36-8001-23	66-30	752-342	2 Rivet Holes	RA105-00200
RA066-10600	RA66-106	066-10600	66-106 66-57 (HD) ** 66-56 (HD) 66-3 ** 66-2			3007 ** 3006	752-309 ** 752-308 ** 761-202	3 Rivet Holes 6 Rivet Holes 3 Rivet Holes 6 Rivet Holes 3 Rivet Holes	RA105-00200 RA105-00200
RA066-10800	RA66-108	066-10800	66-108 66-59 (HD) 66-35			66-35		2 Rivet Holes	RA105-00200
RA066-11000		066-11000	66-110 66-39					2 Rivet Holes	RA105-00200
RA066-11100	RA66-111	066-11100	66-111 66-58 (HD) 66-4		35-204	35-204	752-338	3 Rivet Holes	RA105-00200
RA066-11200	RA66-112	066-11200	66-112 66-71 (HD)				761-239	2 Rivet Holes	RA105-00200
RA066-13100		066-13100						3 Rivet Holes	RA105-06700
RA066-14100		066-14100						3 Rivet Holes	RA105-00200
RA066-14800		066-14800						3 Rivet Holes	RA105-00200
RA066-30026	RA66-109	066-30026	66-109 66-88 (HD) 66-87	B-30026		B30026		2 Rivet Holes	RA105-00200

\*\* Double length lining, obsolete, replaced by two each of the current part number.

(HD) Heavy Duty

Minimum Wear Thickness for organic or metallic linings, except the RA066-09100 and RA066-09200, is 0.100 inch ( 2.54 mm ) thick.

For the RA066-09100 and RA066-09200 linings, the minimum wear thickness of the sintered lining material by itself is 0.030 inch (0.76mm) thick.

For reference only.

## Rivets & Mounting Pins

RAPCO PN		Cleveland PN		Head Diameter	Shank Diameter	Overall Length
Current	Superseded	Current	Superseded			
<b>Rivets</b>						
RA105-00200	RA105-002	105-00200	105-2, 561	5/16	5/32	9/32
RA105-06700		105-06700		5/16	3/16	9/32
<b>Mounting Pin PN</b>						
RA177-00300	RABP001	177-00300	177-3	5/16	5/32	7/32
RA177-00400		177-00400	177-4	5/16	3/16	7/32
RA177-01600		177-01600	177-16	3/8	3/16	7/32

For reference only.

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## Shims Insulators

RAPCO P/N	Cleveland PN
RA068-01100	068-01100
RA068-01600	068-01600
RA068-01700	068-01700
RA068-02700	068-02700
RA068-02800	068-02800
RA068-02900	068-02900
RA068-03100	068-03100
RA068-04100	068-04100
RA068-04600	068-04600

For reference only.

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## Pressure Plates and Assemblies

RAPCO PN	Cleveland PN
RA063-01100	063-01100
RA063-01200	063-01200
RA063-01300	063-01300
RA063-02500	063-02500
RA063-30025	063-30025
RA073-02600	073-02600
RA073-08500	073-08500
RA073-08502	073-08502

For reference only.

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## Grease Seal - Molded

RAPCO PN	Cleveland PN
RA154-03000	154-03000

For reference only.

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## Brake Overhaul Kit

Description	RAPCO PN	Cleveland PN	Minimum Wear
<b>PC-12 w/30-244 Brake Assy.</b>			
Brake Overhaul Kit	RA199-575A	199-575A	
Washer - Seal	RA095-01100	095-01100	
O-Ring	RA101-00700	101-00700	

O-Ring (MS58775-220)	RA101-02500	101-02500	
Rivet	RA105-02401	105-02401	
Rivet	RA105-08701	105-08701	
Wiper	RA107-03700	107-03700	
Wear Pad	RA109-03000	109-03000	Refer to: CM30-244
Rotor Disc	RA159-07400	159-07400	Refer to: CM30-244

For reference only.

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### Wear Pads

Description	RAPCO PN	Cleveland PN
Wear Pad	RA109-00200	109-00200
Wear Pad	RA109-00201	109-00201
Wear Pad	RA109-01500	109-01500

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### Drive Keys

RAPCO PN	Cleveland PN
RA205-02900	205-02900
RA205-05201	205-05201

For reference only.

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