

# Class 1 Buggy Brake System

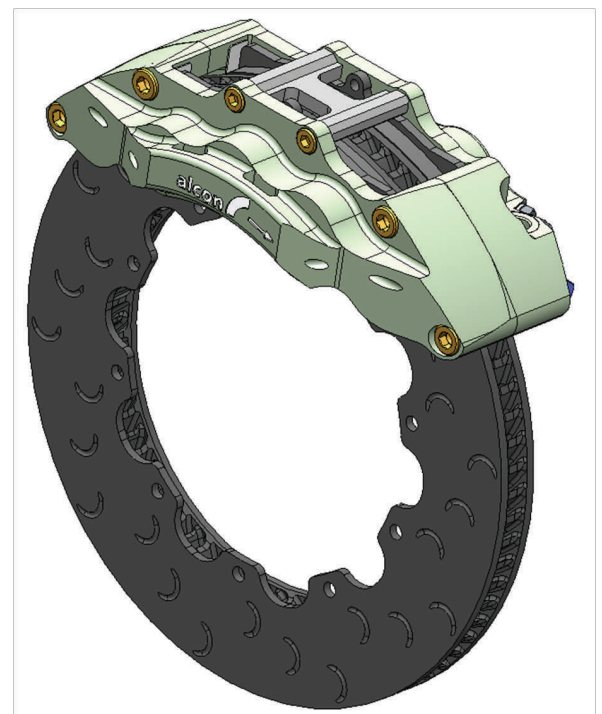


Alcon is one of the world's foremost manufacturers of brake systems for motor sport. For over 20 years, winning race teams have relied on Alcon to deliver the best brake technology for applications including World Rally, IndyCar, Formula 1 and NASCAR.

Alcon has now applied its expertise and experience to developing a complete brake system for the unique demands off road racing—resulting in a world class brake system that sets a new standard for brake performance for Class 1 buggies.

## Features & Benefits

- 6 piston caliper machined from high strength alloy billet, provides better caliper body stiffness reducing flex in the system.
- Radial mounting reduces caliper deflection.
- Internal fluid passageways eliminate vulnerable external bridge pipes and fittings.
- Bleed-screws protected by screw-on caps.
- Stainless steel pistons for maximum durability.
- Staggered piston sizes eliminate pad taper.
- Large piston area for maximum clamping force.
- Large pad volume for maximum pad life.
- 72 curved vane rotors for enhanced cooling.
- Large diameter rotor (12.75") fits within 15" wheel.



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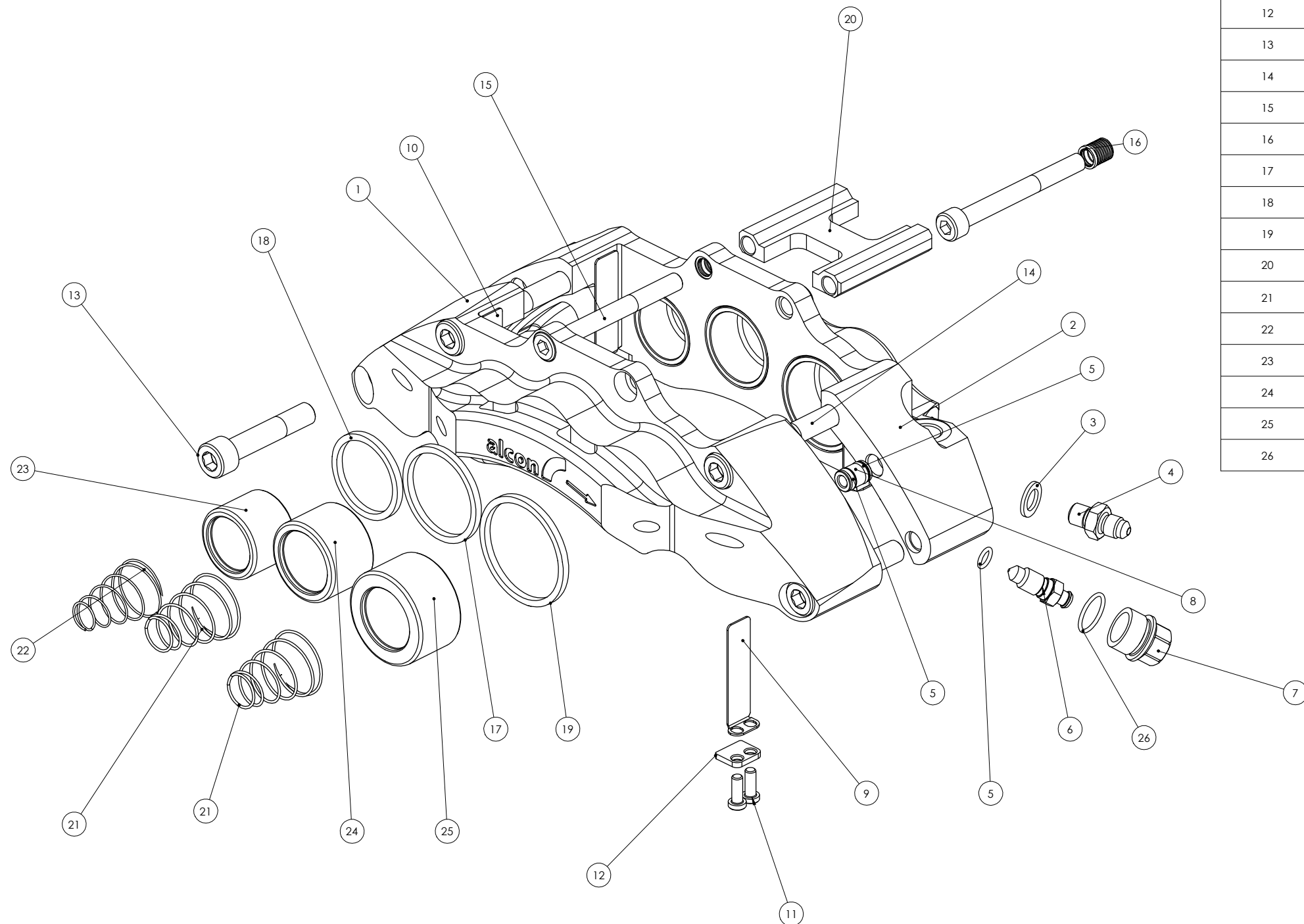
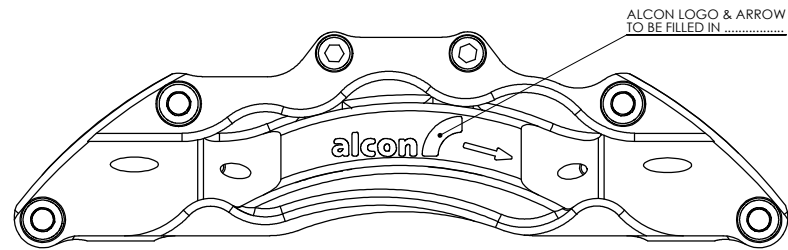


## Specifications

Large Piston Diameter	1.75" (44.5mm)
Middle Piston Diameter	1.50" (38.1mm)
Small Piston Diameter	1.31" (33.3mm)
Pad Thickness	0.63" (16mm)
Rotor Diameter	12.75" (324mm)
Rotor Thickness	0.94" (24mm)

Installation drawing on reverse





ITEM NO.	PART NUMBER	DESCRIPTION	BOM Exploded view/QTY.
1	CAC8949W951L	Caliper - Cover Side	1
2	CAR8949W950L	Caliper - Body Side	1
3	FCG0080X015	COPPER GASKET	1
4	FSA3435X630	3/8" UNF FLUID INLET ADAPTOR	1
5	SER0080X176	Ø16.1 'O'-RING	5
6	FSB3430X371	BLEED SCREW 3/8"UNF ('O' RING TYPE)	1
7	CAB3430X694_A	BLEED SCREW PROTECTION	1
8	BSP3430X289	Bridge Sealing Pipe ('O' Ring)	2
9	PSC4489X546R	WEAR PLATE	2
10	PSC4489X546L	WEAR PLATE	2
11	BSS0080X756	10-32UNF X 12.7 LOW HEAD CAP SCREW	8
12	SSC4489X547	PAD SUPPORT	4
13	BSS4441X718	BOLT M10x1.5x52 SKT HEAD CAP SCREW	2
14	BSS4441X717	BOLT M10x1.5x63 SKT HEAD CAP SCREW	2
15	BSS0080X058D	BOLT M8X1.25X75 SOCKETHD	2
16	TSC0080X101	STEEL TIMESERT M8X11.7	2
17	SES3800X751	Ø39.4X3.0X3.4 EPDM 70 SEAL (ORANGE)	2
18	SES3300X751	Ø34.6X3.0X3.4 EPDM 70 SEAL (ORANGE)	2
19	SES4500X751	Ø45.8X3.0X3.4 EPDM 70 SEAL (ORANGE)	2
20	RAC4489X687	Pad Retaining Bridge	1
21	SSC3435X609	SPRING ANTIKNOCKBACK 2KG	4
22	SSC3435X623	SPRING ANTIKNOCKBACK 2KG	2
23	PSS3325X200E	Ø33.3 STAINLESS STEEL PISTON	2
24	PSS3825X210E	Ø38.1 STAINLESS STEEL PISTON	2
25	PSS4425X205E	Ø44.5 STAINLESS STEEL PISTON	2
26	SER0080X120	Ø16.1 'O'-RING	1

<b>DRAWN IN SOLIDWORKS</b> SCALE: <b>1:1</b> WEIGHT: ... grams FINISH: N/A (Ra) (N/A) (Ra)	DRAWN BY: <b>RICHARD HUMBLE</b> DATE: <b>22/04/09</b> CHK'D BY: <b>P SMITH</b> DATE: <b>30/04/09</b>	ALCON COMPONENTS LIMITED APOLLO TAMWORTH STAFFORDSHIRE B79 7TN TEL: +44(0)1827 723700 <b>alcon</b> <small>www.alcon.com</small>
REMOIVE ALL SHARP EDGES, BURRS AND SWIRL ALL DIMENSIONS ARE BEFORE TREATMENT UNLESS STATED TOLERANCES UNLESS STATED #0.2 ANGLES: 80.0°	MATERIAL: <b>Various</b> HEAT TREATMENT/CURE CYCLE: <b>N/A</b> SURFACE TREATMENT: <b>N/A</b>	NOTE: THIS DRAWING AND INFORMATION THERE UPON IS THE PROPERTY OF ALCON COMPONENTS LTD. IT IS LENT ON THE CONDITION THAT IT, IN WHOLE OR IN PART, SHALL NOT BE REPRODUCED, COPIED, LENT OR DISCLOSED TO ANY PERSON WITHOUT WRITTEN CONSENT OF ALCON AND SHALL BE RETURNED TO ALCON COMPONENTS LTD. PART NAME (Max. 40 digits): <b>CALIPER INSTALLATION CLASS 1 BUGGY, JIMCO</b> PART NUMBER: <b>CAR89172</b>