

# B1 INSTALLATION DRAWING

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Alterations				
Date & No.	Particulars	Zone	Initials	
01 08/07/2021 93274	FIRST ISSUE			SW
02 22/07/2021 B8274	Ø8.80 I7 WAS Ø8.80 H8 0.75x45° ADDED			SW
03 08/11/2021 B8274_05	CP4848-109 & CP4612-109 NOW INCLUDED IN BOM			SW

## GENERAL DESCRIPTION

6 PISTON DIFFERENTIAL BORE CALIPER TO SUIT UP TO Ø355x32mm IRON DISC WITH A FIXED BRIDGE DESIGN.

## TYPICAL APPLICATION - Rallyraid

### CALIPER SPECIFICATION

BORE SIZE	CEJ (27.00 x 31.75 x 38.10) (1.063" x 1.25" x 1.50")
PISTON AREA (TOTAL)	50.08cm <sup>2</sup>
DISC DIAMETER MAX	355.00
DISC THICKNESS MAX	32.00
DISC THICKNESS MIN (WORN CONDITION)	31 (0.5mm SIDE TO SIDE)
PAD FAMILY	CP6766D50
PAD THICKNESS MAX	18.00
PAD THICKNESS MIN	6.00
MIN STACK	43.00
HYDRAULIC FEED	PUSH-IN FITTING
DUCTING MOUNTS	M4x0.70 8.0 THREAD DEPTH
SCRAPER MOUNTS	M5x0.80 13.5 THREAD DEPTH
TEMPERATURE SENSOR MOUNT	M4x0.70 8.0 THREAD DEPTH
DRY WEIGHT (WITHOUT PADS)	2.66kg
EFFECTIVE RADIUS (ON Ø355 DISC)	152.5
'PL' DIMENSION (TOP OF PAD FRICTION MATERIAL TO CALIPER MOUNTING FACE)	74.50
'C' DIMENSION (CALIPER OFFSET)	43
'U' DIMENSION (UPRIGHT MOUNTING)	103 U = (DISC Ø/2) - PL
TIGHTENING TORQUES	BLEED SCREW: 17Nm PAD LEDGE SCREWS: 4Nm TYPICAL M12 MOUNTING BOLT: 65Nm (GUIDANCE ONLY)

### CALIPER POSITIONING

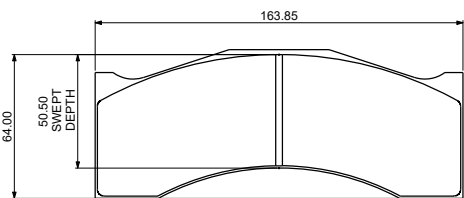
RHT	RIGHT HAND TRAILING (BEHIND AXLE)
LHT	LEFT HAND TRAILING (BEHIND AXLE)

### PART NUMBERING CONVENTION

PART NUMBER	DESCRIPTION
CP6769-2S7L	RHT - SIDE FEED - 7lb AKB SPRING - STAINLESS PISTONS
CP6769-3S7L	LHT - SIDE FEED - 7lb AKB SPRING - STAINLESS PISTONS

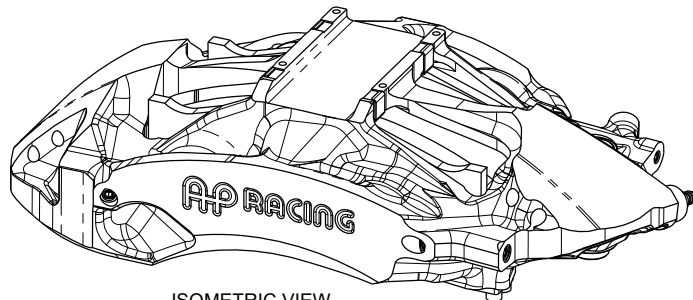
### INSTALLATION INFORMATION

THE CALIPER IS DESIGNED SO THAT THE DISC WILL BE MOUNTED CENTRALLY WITHIN A TOLERANCE OF ±0.50mm.  
THE CALIPER IS TO BE MOUNTED IN THE TRAILING POSITION ONLY, ±15° FROM THE VERTICAL.  
THE DIAMETRICAL CLEARANCE BETWEEN THE DISC OUTSIDE DIAMETER AND THE PATHWAY SHOULD BE 2.50mm NOMINALLY.

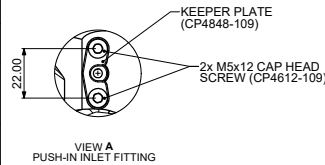
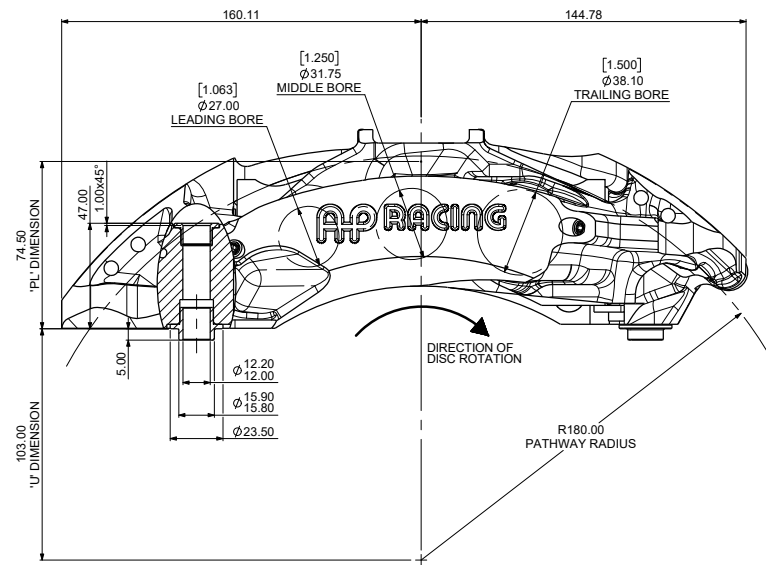


CP6766D50 PAD

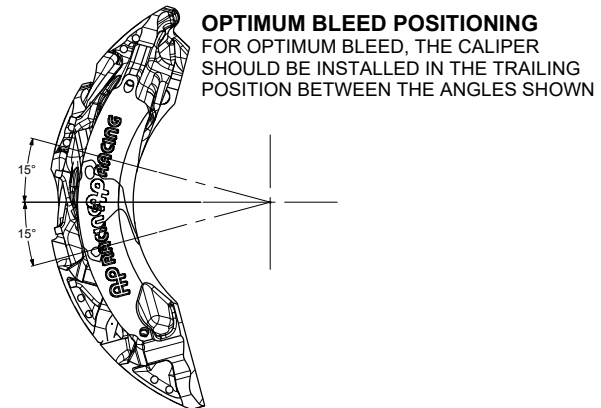
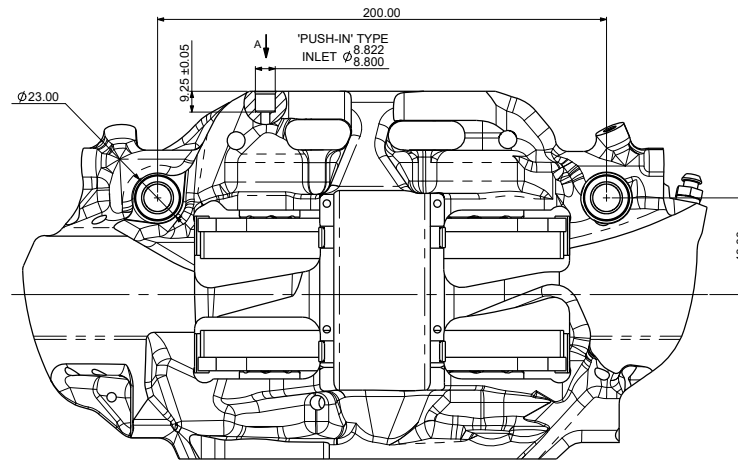
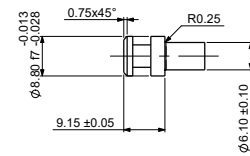
PAD THICKNESS - 18.0 mm  
PAD AREA - 81.9 cm<sup>2</sup>  
PAD VOLUME - 147.42 cm<sup>3</sup>



ISOMETRIC VIEW



### SUGGESTED PUSH-IN FITTING DIMENSIONS



**OPTIMUM BLEED POSITIONING**  
FOR OPTIMUM BLEED, THE CALIPER SHOULD BE INSTALLED IN THE TRAILING POSITION BETWEEN THE ANGLES SHOWN

SCALE 1:1	SHEET 1 OF 3
DRAWN	Sten Wahlstrom
APPROVED	
DERIVED FROM	
TITLE	6-POT RALLY RAID CALIPER RADI-CALIPER
DRG NO.	CP6769-1cd

**B1**

**INSTALLATION DRAWING**

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**FIRST ANGLE PROJECTION**

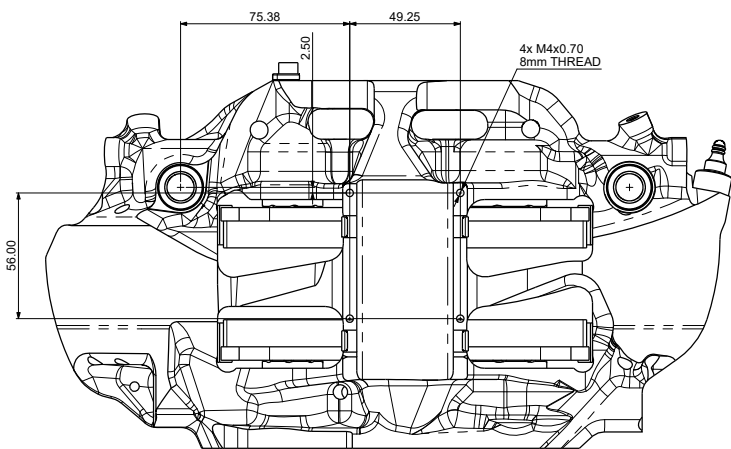
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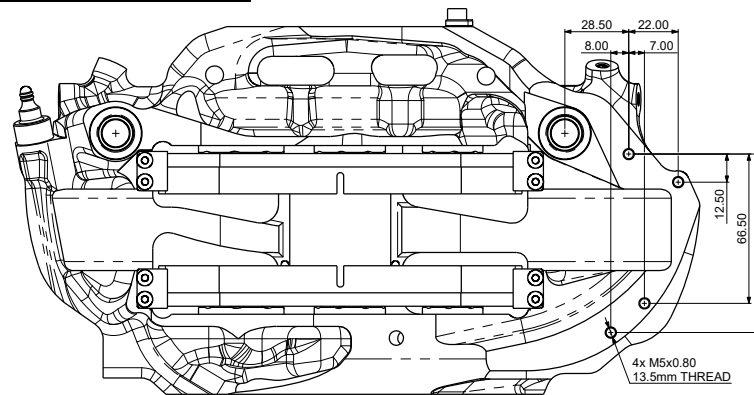
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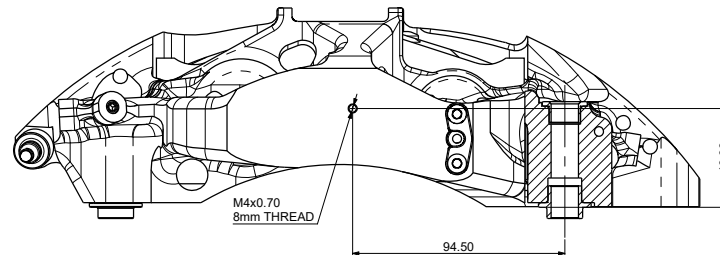
**DUCT MOUNTING HOLES**



**SCRAPER MOUNT HOLES**

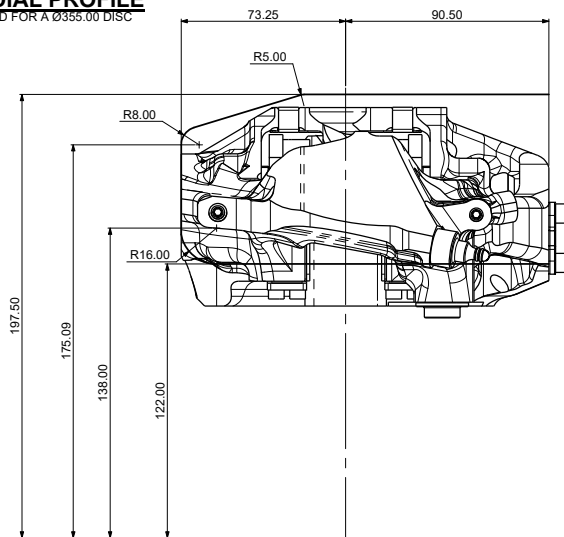


**TEMPERATURE SENSOR MOUNTING HOLE**



**RADIAL PROFILE**

SCALED FOR A Ø335.00 DISC



Issue No.	Alterations		
	Date & No.	Particulars	Zone / Initials
-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-

SCALE 1:1	SHEET 2 OF 3
DRAWN	Sten Wahlstrom
APPROVED	
DERIVED FROM	
TITLE 6-POT RALLY RAID CALIPER RADI-CALIPER	
DRG NO.	CP6769-1cd

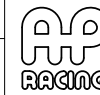
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SCALE 1:1 SHEET 3 OF 3

DRAWN Sten Wahlstrom

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TITLE  
**6-POT RALLY RAID CALIPER  
RADI-CALIPER**

DRG NO. CP6769-1cd

**SPARE PARTS AND KITS**

**CP6769-2 / 3S7L SPARES**

REF	DESCRIPTION	PART NUMBER	QTY PER ASSEMBLY	FITTING INSTRUCTIONS
1	BRIDGE WEAR PLATE	CP6766-107	1	
2	M4x0.7 SOCKET HEAD CAP SCREW	CP3215-115	8	APPLY A 1-2mm DROP OF LOCTITE 270 TO THE 2ND FROM LAST THREAD WHEN FITTING.
3	PAD SUPPORT	CP6302-107	4	TIGHTENING TORQUE - 4Nm
4	PAD ABUTMENT PLATE	CP6766-108	4	
5	Ø27.00 [1.063"] SST PISTON (C-BORE)	CP6769-113	2	
6	Ø31.75 [1.25"] SST PISTON (E-BORE)	CP6769-114	2	
7	Ø38.10 [1.50"] SST PISTON (J-BORE)	CP6769-115	2	
8	71b ANTI-KNOCKBACK SPRING	CP4100-121	4	
9	71b ANTI-KNOCKBACK SPRING	CP2667-113	2	
10	SEAL KIT (6 SEALS)	CP4518-CEJ	1	REFER TO PUBLICATION REF: P14.290 & P14.220
11	BLEED SCREW KIT	CP3880-1	1	TIGHTENING TORQUE - 17Nm
12	RUBBER DUST CAP	CP4970-147	1	
13	KEEPER PLATE	CP4848-109	1	
14	M5x0.8 SOCKET HEAD CAP SCREW	CP4612-109	2	APPLY A 1-2mm DROP OF LOCTITE 270 TO FIRST 2 THREADS WHEN FITTING. TIGHTENING TORQUE - 6Nm

