

A1 INSTALLATION DRAWING

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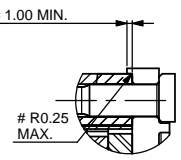
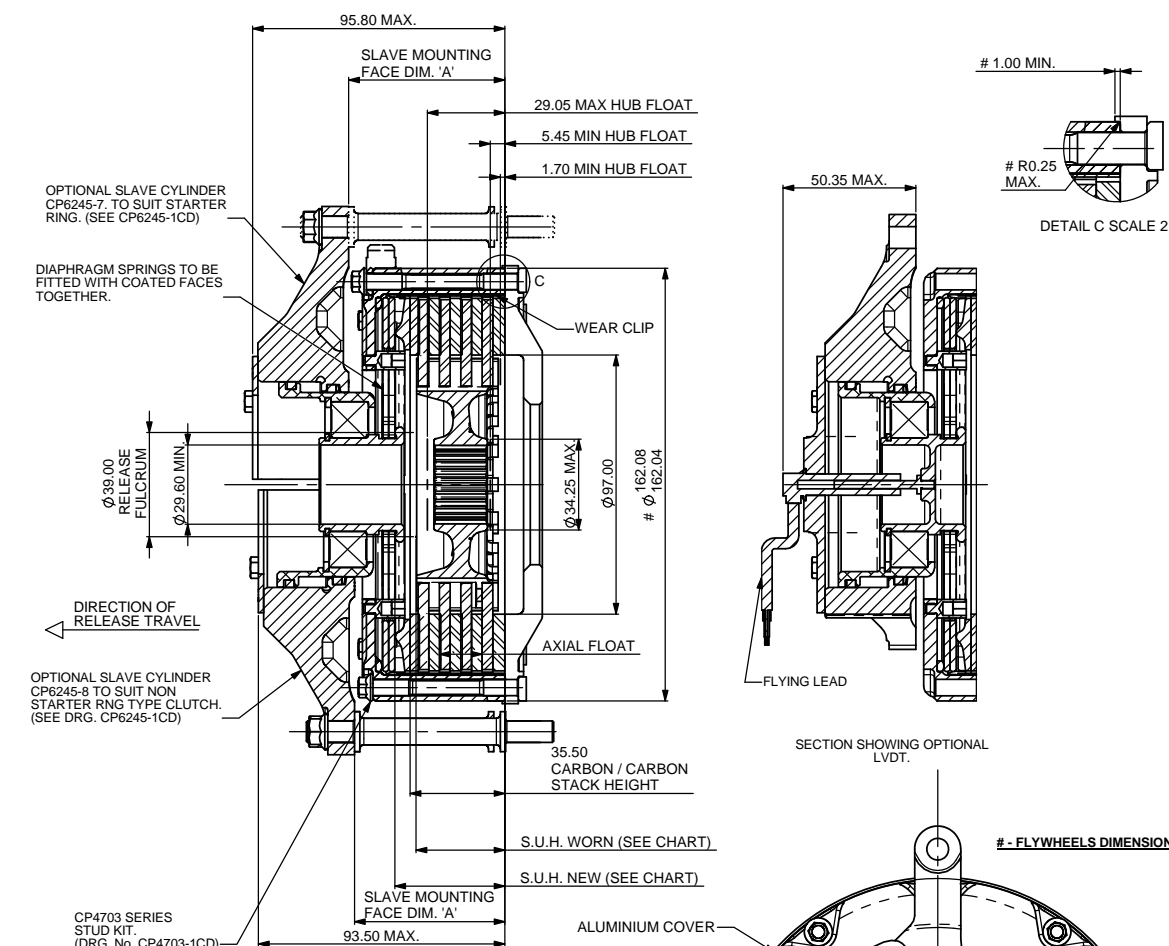
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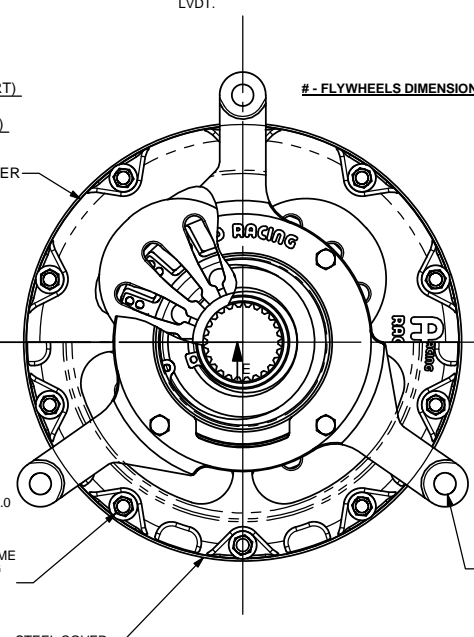
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DETAIL C SCALE 2 : 1



10 MOUNTING STUDS/NUTS M6 x 1.0 EQUISPACED ON A Ø152.00 P.C. NUTS TO BE TIGHTENED IN A DIAMETRICALLY-OPPOSITE SEQUENCE, HALF A TURN AT A TIME RECOMMENDED NUT TIGHTENING TORQUE:- 10 Nm (7.5 lb.ft).

CP7224 CLUTCH FAMILY			
RECOMMENDED MAX. DYNAMIC TORQUE CAPACITY	(Nm)	1523	1513
	(ft.lb)	1123	1116
RELEASE LOAD	Max. Peak Worn (N)	5400	5700
	At Travel (N)	2500	2500
WEAR IN (mm) (See Note)		1.50	1.50
	Set Up Height New	41.64 40.31	41.62 40.28
	Set Up Height Worn	33.69	33.67
(Set Up Height is calculated from the flywheel friction face.)			
	Aluminium Cover	Steel Cover	Titanium Cover
Assembly Mass (kg)	2.17	2.41	1.88
Assembly Inertia (kg.m²)	0.00685	0.00953	0.00709
Estimated Driven Plate & STL Hub Inertia = 0.001219 Kgm²			
PERFORMANCE SUFFIX	OH	OH	BE
For Reference			SINGLE SPRING
Diaphragm Spring Rate	ORA	ORA	BUF
Clutch Ratio	HIR	HIR	EHR

MATERIAL SUFFIX	COVER MATERIAL	PRESSURE PLATE MATERIAL	CARBON / CARBON TYPE
02	ALUMINIUM	STEEL	HEAVY DUTY
03	STEEL	STEEL	HEAVY DUTY
05	TITANIUM	STEEL	HEAVY DUTY
08	ALUMINIUM	TITANIUM	HEAVY DUTY

FLYWHEEL TYPE	SUFFIX	COMMENTS
STANDARD FLAT FLYWHEEL	FN	FOR INSTALLATION DATA SEE SHEET 2
STANDARD STEPPED FLYWHEEL	SN	n/a
FLAT FLYWHEEL WITH CFS	FC	FOR INSTALLATION DATA SEE SHEET 2
STEPPED FLYWHEEL WITH CFS	SC	n/a

Sample AP Racing Part No. **CP7224-OH02-FC**
If a displacement transducer is required add '-DT' to the part number (See sheet 4)
If the increased drive area option is required add '-WD' to the part number

WEAR-IN
THIS CLUTCH HAS BEEN DESIGNED FOR THE WEAR IN INDICATED ABOVE, WHICH MUST BE COMPENSATED FOR BY USING PRESSURE PLATE "SHIMS" FROM THE KITS DETAILED BELOW.
THE MAXIMUM CARBON STACK WEAR FOR THIS ASSEMBLY IS 6.00mm DURING WHICH, AXIAL HUB FLOAT MUST BE MAINTAINED

	OH	BE
STANDARD KIT	CP6504-7SS (0.50 TO 4.50 IN 0.50 INC.)	CP7224-2SS (0.50 TO 5.00 IN 0.50 INC.)
INTERMEDIATE KIT	CP6504-8SS (0.25 TO 4.25 IN 0.50 INC.)	CP7224-3SS (0.25 TO 5.25 IN 0.50 INC.)
HUB OPTIONS		
PART NUMBER	CP6904-112S	CP6904-116S
HUB MATERIAL	STEEL	STEEL
SPLINE DETAILS	1.16" x 26 x 30°	1.00" x 23 x 30°

NOTE 'A'
THIS DIMENSION MUST BE MAINTAINED BY THE USE OF CORRECT LENGTH STUDS/SLEEVES TO ENSURE PROPER FUNCTIONING OF THE RELEASE MECHANISM.

NOTE 'B'
IN THE CASE OF 'OVER LONG' MOUNTING STUD PROTRUSION THROUGH NUT SOME MACHINING OF STUD LENGTH MAY BE REQUIRED, **PLEASE CHECK SLAVE CLEARANCE**

NOTE 'C'
RELEASE TRAVEL TO BE 4.00mm MAX.

SLAVE CYLINDER SET-UP HEIGHT FROM NEW MUST MAKE ALLOWANCES FOR MAXIMUM CARBON STACK WEAR-IN (1.50 mm) AND MAXIMUM RELEASE TRAVEL.

Issue No.	Alterations		Zone	Initials
	Date & No.	Particulars		
1	21/11/02 C1903	FIRST ISSUE	#	JG
2	22/07/04 C2476	REVISED HUB DETAILS	C6	BJP
3	03/11/04 C2441	LVDT CHANGE	#	JG
4	21/02/05 C2324	COVER MACHINING CHANGED IN LINE WITH LATEST COMPONT.	#	JG
5	07/11/05 RAC21284	TORQUE CAPACITY : OH - 1523 WAS 1390	#	JG
6	14/06/06 C2921	CP7224-BE05-FC ADDED.	#	JG
7	26/09/07 C3225	TITANIUM HUB OPTION DELETED. CP6904-116S ADDED	#	JG
8	30/04/09	BE PRESSURE PLATE KITS ADDED.	#	JG
9	28/08/18 C5287	CP7224-OH03-FN & CP7224-OH03-FC ADDED STEEL COVER VIEW ADDED SHEET FORMAT UPDATED	#	DSM
10	18/10/18 C5287	MASS & INERTIA ADDED FOR STEEL COVER ALL SUH CHANGED (WAS 41.15/33.26 NEW, 33.26 WORN)	C6	BJP

	DIM. 'A' (SEE NOTE A)	DIM. 'B' (SEE NOTE B)	DIM. 'C'
CLUTCH ASSY. WITH STARTER RING	58.75 58.25	59.00 MAX.	Ø193.00 P.C.D.
CLUTCH ASSY. WITHOUT STARTER RING	56.42 55.92	56.50 MAX.	Ø185.00 P.C.D.

SCALE 1:1	SHEET 1 OF 2
DRAWN	Jeremy Govan
APPROVED	
DERIVED FROM	cp7063-1cd
TITLE	Ø140mm (5.5") C/C PULL TYPE CLUTCH INSTALLATION
DRG NO.	cp7224-1cd

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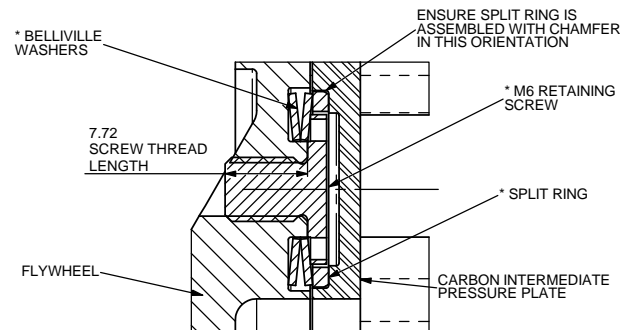
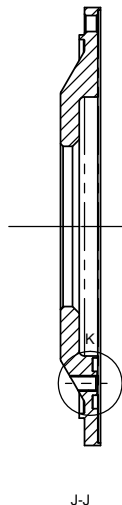
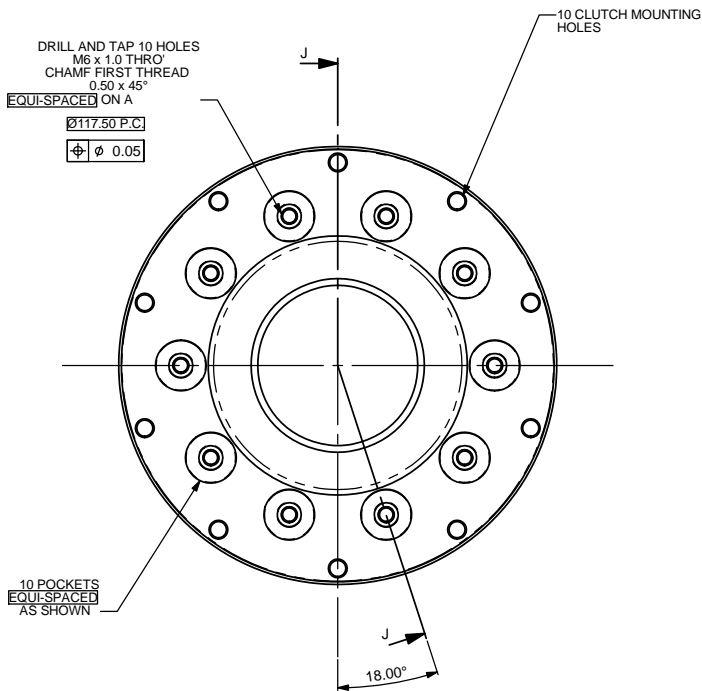
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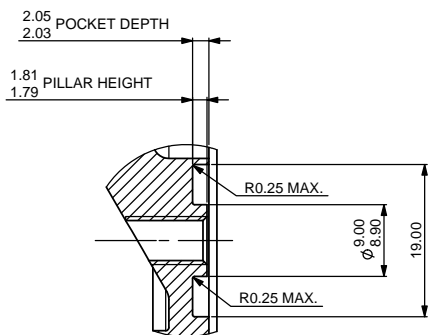
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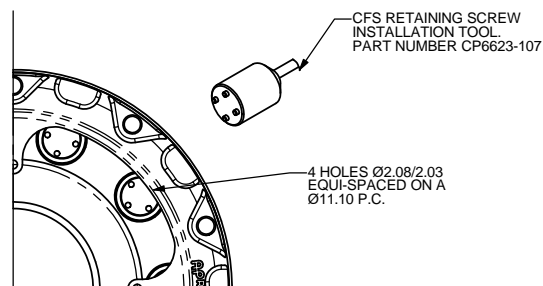
*** CUSHION FLYWHEEL COMPONENTS AVAILABLE IN KIT FORM.**
PART No. CP6623-2

CP6623-2 Cushion Flywheel Kit Installation

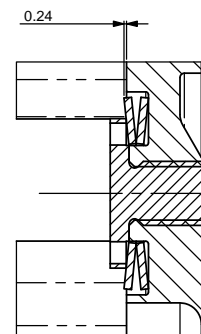
1. Machine 10 equispaced pockets and M6 x 1.0 tapped holes into the friction surface of the flywheel, to the size and position shown on opposite.
2. Place the two Belleville washers supplied into each pocket in the orientation shown below.
3. Apply Loctite 620 to threads and tighten the M6 x 1.0 screws onto the Belleville washers to a torque of 4Nm.
4. Compress split washers using pliers and fit into recesses in bottom carbon/carbon pressure plate. Ensure split washers are flush with the friction face



DETAIL K SCALE 3 : 1



CUSHIONING REPLACEMENT CRITERIA



WITH TIME AND USE THE CUSHIONING EFFECT WILL DETERIORATE AND COMPONENTS SHOULD BE SERVICED WITH THE ABOVE KIT WHEN EITHER THE BELLEVILLES BECOME LOOSE OR WHEN DIMENSION 'X' FALLS BELOW 0.2, TAKEN AS THE AVERAGE OF 4 EQUALLY SPACED MEASUREMENTS AROUND THE CIRCUMFERENCE OF THE BELLEVILLE.

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

SCALE 1:1 SHEET 2 OF 2

DRAWN Jeremy Govan

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TITLE

DRG NO. cp7224-1cd