

A1 INSTALLATION DRAWING

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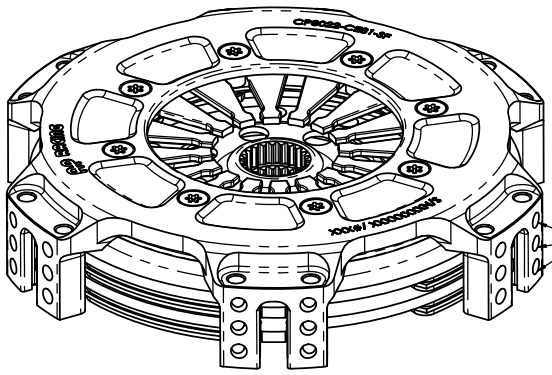


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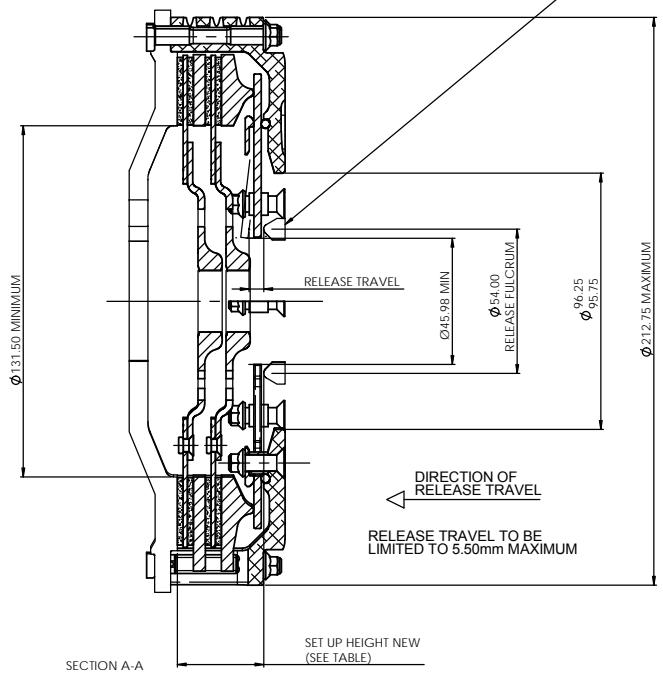
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CP8022 - Ø184.00mm (7,25") CERAMETALLIC INTERNAL DRIVE TWIN PLATE CLUTCH ASSEMBLY



FLAT FLYWHEEL VERSIONS HAVE 2 HOLES ON EACH LUG

RECOMMENDED RELEASE BEARING :-
 STEEL CAGED, ROUND NOSED BALL TYPE BEARING TO BE FREE OF SPRINGS FINGERS WHEN CLUTCH IS FULLY ENGAGED.
 CP3457-2 STANDARD RELEASE BEARING (OUTER RACE ROTATES)
 CP3457-6 HIGH SPEED RELEASE BEARING (INNER RACE ROTATES)



CP8022 CLUTCH FAMILY

MAXIMUM DYNAMIC TORQUE CAPACITY					
(Nm)	636	421	263	636	
(ft.lb)	469	310	194	469	
RELEASE LOAD					
Max. Peak New (N)	3500	2400	1600	4000	
Max. Peak Worn (N)	4400	3300	2200	5100	
WEAR IN (See Note)					
	0.75	0.75	0.75	1.25	
Set Up Height New					
	33.22	33.85	32.99	32.38	
	30.55	31.18	30.32	29.74	
Set Up Height Worn - MAX					
	35.81	36.45	35.58	36.65	
(Set Up Height is calculated from the flywheel friction face.)					
Release Ratio					
	3.31	3.31	3.31	3.31	
Estimated Assembly Mass (Inc. 4 paddle driven plate) = 3.31 Kg					
Estimated Assembly Inertia (Inc. 4 paddle driven plate) = 0.01802 Kgm ²					
Estimated Driven Plate Inertia (4 paddle driven plate) = 0.003567 Kgm ²					

PERFORMANCE SUFFIX	CH	OH	NH	TH
For Reference				
Diaphragm Spring Rate	CRV	ORA	GRN	TGY
Clutch Ratio	HiR	HiR	HiR	HiR

MATERIAL SUFFIX	DRIVE PLATE MATERIAL	DRIVE PLATE THICKNESS
81	CERAMETALLIC	6.00mm

FLYWHEEL TYPE		
	SUFFIX	COMMENTS
FLAT FLYWHEEL	FF	FOR INSTALLATION DATA SEE SHEET 2
STEPPED FLYWHEEL	SF	FOR INSTALLATION DATA SEE SHEET 2

Sample AP Racing Part No. **CP8022-CH81-SF**

WEAR IN	
THIS CLUTCH HAS BEEN DESIGNED FOR THE WEAR IN INDICATED ABOVE,	
DRIVEN PLATE THICKNESS NEW: 6.00mm Nominal	
DRIVEN PLATE THICKNESS WORN : 5.63mm Minimum Worn	
FOR DRIVEN PLATE DETAILS SEE SHEET 3	

ISSUE NO.	Alterations			
	Date & No.	Particulars	Zone	Initials
1	05/01/11 C3932	FIRST ISSUE	#	JO
2	07/09/11	SHEET 3 - DRIVEN PLATE DATA ADDED.	#	JO
3	07/11/12 C4396	FLAT FLYWHEEL DETAILS ADDED	#	JO
4	04/02/13	INSTALLATION WIRE ADDED THE FLAT FLYWHEEL OPTION	#	JO
5	04/08/17 C5176	SHEET 3 - CP8401-A040H AND CP8401-C040H 1.532" x26T DRIVE PLATES ADDED	#	PCB
6	29/09/17 C5191	CH ASSEMBLY: SUH NEW: 33.22/31.88 WAS 32.27/30.52 SUH WORN: 35.81 WAS 34.78 OH ASSEMBLY: SUH NEW: 33.85/31.18 WAS 32.80/30.91 SUH WORN: 36.45 WAS 35.31 NH ASSEMBLY: SUH VALUES REMOVED - CONTACT AP RACING FOR MORE DETAILS TH ASSEMBLY: SUH NEW: 32.38/29.74 WAS 32.47/30.72 SUH WORN: 36.65 WAS 34.98 WEAR IN 1.25mm WAS 1.50mm CE ASSEMBLY: SUH NEW: 33.54/30.44 WAS 33.11/30.16 SUH WORN: 36.62 WAS 35.19 OE ASSEMBLY: SUH NEW: 34.30/31.18 WAS 33.76/30.79 SUH WORN: 37.38 WAS 35.83	#	GS
7	21/05/18 C5257_01	SPRING BORE MIN 45.98 WAS 47.75	E5	BJP
8	19/12/18 C5191	CH ASSEMBLY: SUH NEW: 33.22/30.55 WAS 33.22/31.88	#	GS
9	20/02/19 C5206_05	SHEET 3 CP8405-A036H WAS CP7972-A036H CP8401-A008 & A029 DRIVE PLATES DELETED PICTORIAL UPDATE OF 6 PADDLE DRIVE PLATE	B12	BJP
10	25/07/2019 C5379	SET UP HEIGHT DATA ADDED	J12	TBT
11	18/05/20 C5444	CE & OE OPTIONS REMOVED	G13	JAS

SCALE 1:1	SHEET 1 OF 3
DRAWN	Jeremy Govan
APPROVED	
DERIVED FROM	CP8372 / CP7972
TITLE	
Ø184mm (7,25") 2 PLATE CLUTCH INSTALLATION	
DRG NO.	CP8022CD

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

6 x 2 MOUNTING HOLES Ø6.15/6.05

EQUI-SPACED AS SHOWN

ON A

Ø200.025 P.C

28.00

FLYWHEEL DIMENSIONS

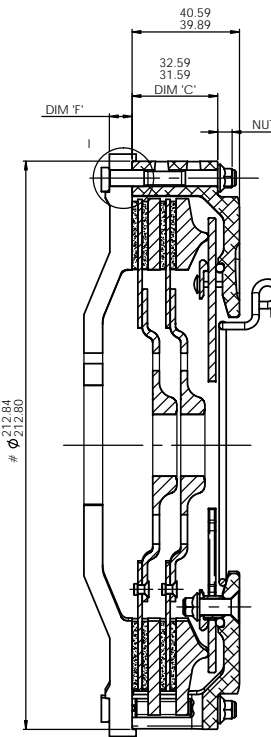
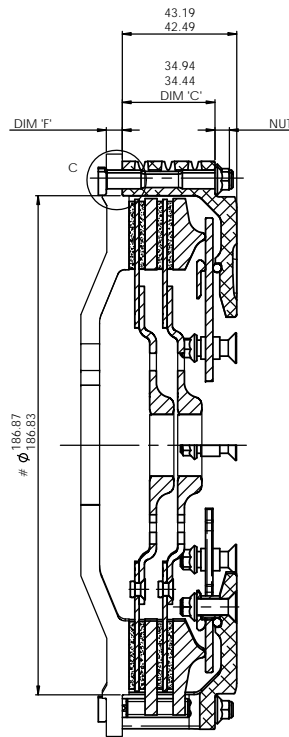
(RECOMMENDED FOR CP4703 STUDS)

6 x 2 STUD MOUNTING HOLES

Ø6.020/6.005

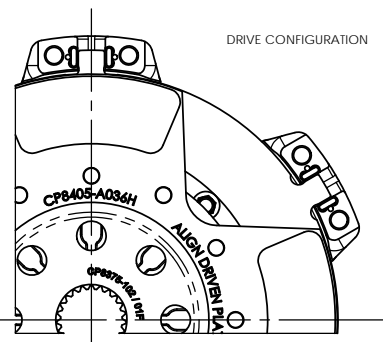
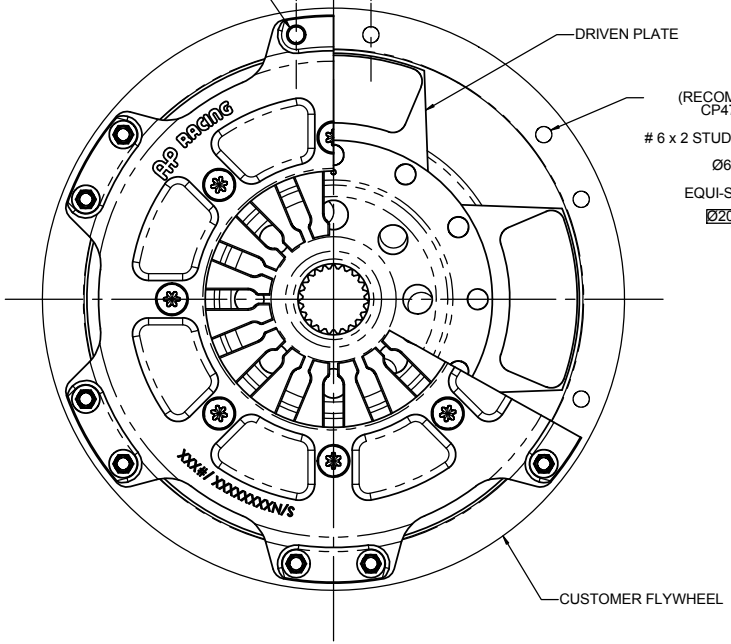
EQUI-SPACED ON A

Ø200.025 P.C

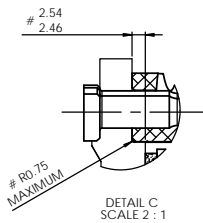


INSTALLATION WIRE FOR USE WHEN INSTALLING A FLAT FLYWHEEL VERSION.

THIS WIRE MUST BE REMOVED BEFORE USE



DRIVE CONFIGURATION



DETAIL C SCALE 2:1

RECOMMENDED CLUTCH MOUNTING :

(FOR ALL TYPES OF ASSEMBLY)
 M6 x 1.0, CP4703 FAMILY STUD AND K-LOCK NUT.
 TIGHTENING TORQUE : 10Nm (7.5 ft.lb)

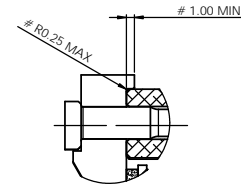
LENGTH OF STUD REQUIRED TO BE CALCULATED THUS :

STUD LENGTH = DIMENSIONS 'C' + 'F' + NUT

THIS CALCULATED LENGTH TO BE ROUNDED UP TO THE NEXT AVAILABLE STANDARD STUD LENGTH.

SUGGESTED FLYWHEEL MATERIAL:

0.35/0.45% CARBON STEEL, BRINELL 200 MIN. OR SUITABLE MATERIAL FOR HIGH RPM.
 FRICTION FACE TO BE FINE TURNED AND GROUND SMOOTH AND FLAT. RUN OUT AT R77.2, ≤0.08 WHEN ASSEMBLED TO CRANKSHAFT.



DETAIL I SCALE 2:1

SCALE 1:1 SHEET 2 OF 3

DRAWN: Jeremy Govan
 APPROVED:
 DERIVED FROM: CP8372 / CP7972

TITLE
 Ø184mm (7.25") 2 PLATE
 CLUTCH INSTALLATION

DRG NO. CP8022CD

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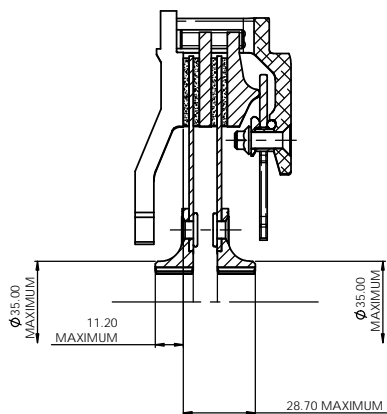
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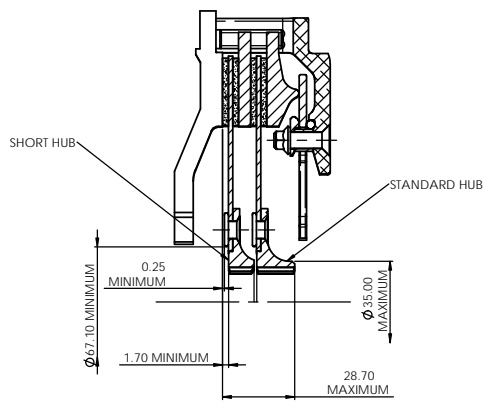
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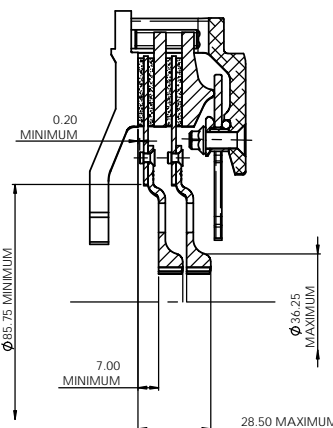
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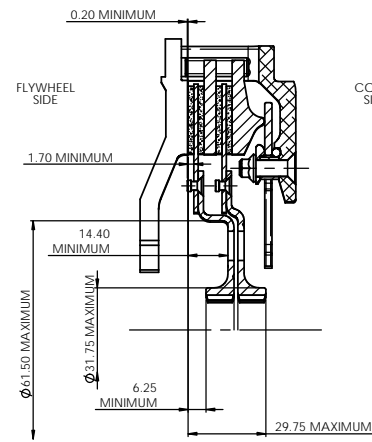
BACK TO BACK DRIVEN PLATES
(CP8401 AND CP8601 TYPE)



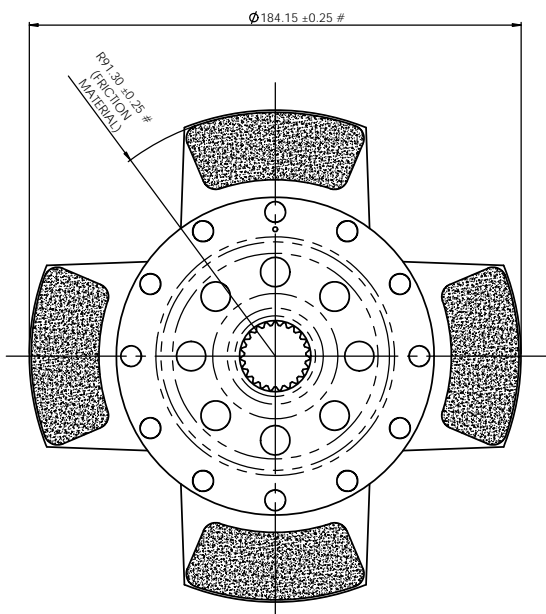
REDUCED OFFSET DRIVEN PLATES
(CP8401 AND CP8601 TYPE)



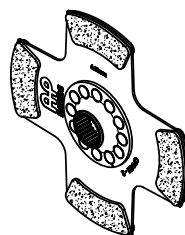
NESTED TYPE DRIVEN PLATES
(CP7972 TYPE)



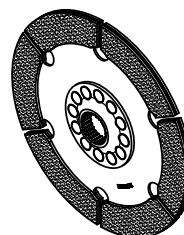
ALTERNATIVE NESTED TYPE DRIVEN PLATE
(CP8172 TYPE)



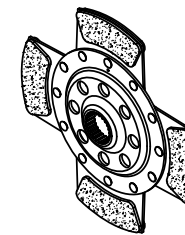
DIMENSIONS FOR ALL STYLES,
4 AND 6 PADDLE DRIVEN PLATES



4 PADDLE DRIVEN PLATES
(1:2 SCALE)



6 PADDLE DRIVEN PLATES
(1:2 SCALE)



4 PADDLE NESTED TYPE
DRIVEN PLATES (1:2 SCALE)

DRIVEN PLATE DETAILS								
BACK TO BACK TYPE			REDUCED OFFSET TYPE			NESTED TYPE		
PART NUMBER	NUMBER REQUIRED	SPLINE	PART NUMBER	NUMBER REQUIRED	SPLINE	PART NUMBER	NUMBER REQUIRED	SPLINE
CP8401-A036H	2	1.00" x 23T	CP8401-A036H	1	1.00" x 23T	CP8405-A036H	2	1.00" x 23T
			CP8401-G036H	1	1.00" x 23T			
			CP8401-A040H	1	1 5/32" x 26T			
			CP8401-G040H	1	1 5/32" x 26T			
6 PADDLE						ALTERNATIVE NESTED TYPE		
CP8601-A036H	2	1.00" x 23T	CP8601-A036H	1	1.00" x 23T	CP8172-10FM4	1	1.00" x 23T
			CP8601-G036H	1	1.00" x 23T	CP8172-11FM4	1	1.00" x 23T

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