N:\SolidWorks\Customer\cp8022cd.slddrw

Last Saved: bpayne on 22 February 2019 11:54:26

A1 INSTALLATION DRAWING

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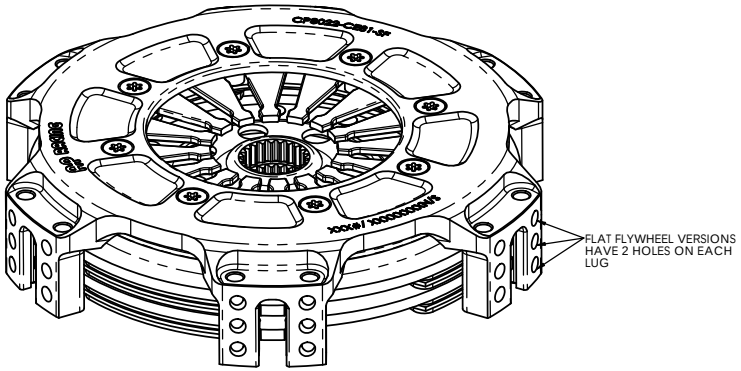
FIRST ANGLE PROJECTION

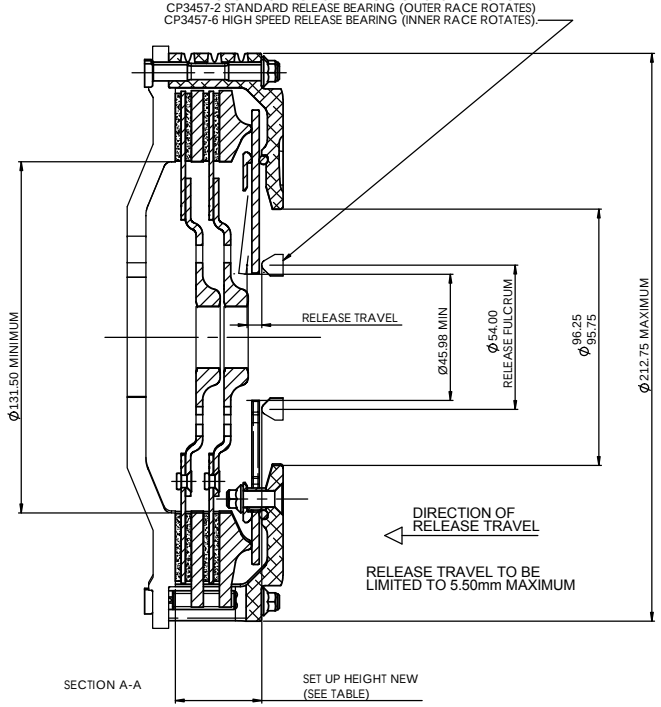
AP Racing
Wheler Road
Coventry
CV3 4LB
Tel: +44 (0) 24 7663 9595
Fax: +44 (0) 24 7663 9559
e-mail: engineering@apracing.co.uk
Web site: http://www.apracing.com

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



RECOMMENDED RELEASE BEARING :-

STEEL CAGED, ROUND NOSED BALL TYPE BEARING TO BE FREE OF SPRING 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	827	519
(ft.lb)	469	310	194	469	610	383
RELEASE LOAD						
Max. Peak New (N)	3500	2400	1600	4000	3500	2400
Max. Peak Worn (N)	4400	3300	2200	5100	4400	3300
WEAR IN (See Note)	0.75	0.75	0.75	1.25	0.75	0.75
Set Up Height New	33.22 30.55	33.85 31.18	CONTACT AP RACING	32.38 29.74	33.54 30.44	34.30 31.18
Set Up Height Worn - MAX	35.81	36.45	-	36.65	36.62	37.38
(Set Up Height is caluclated from the flywheel friction face.)						
Release Ratio	3.31	3.31	3.31	3.31	3.96	3.96
Estimated Assembly Mass (Inc. 4 paddle driven plate) = 3.31 Kg						
Estimated Assembly Inertia (Inc. 4 paddle driven plate) = 0.01802 Kgm²						
Estimated Driven Plate Inertia (4 paddle driven plate) = 0.003567 Kgm²						

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

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	#	JG
2	07/09/11	SHEET 3 - DRIVEN PLATE DATA ADDED.	#	JG
3	07/11/12 C4396	FLAT FLYWHEEL DETAILS ADDED	#	JG
4	04/02/13	INSTALLATION WIRE ADDED THE FLAT FLYWHEEL OPTION	#	JG
5	04/08/17 C5176	SHEET 3 - CP8401-A040H AND CP8401-G040H 1 5/32" x26T DRIVE PLATES ADDED	#	DCB
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 33.75/30.79 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 PADLE DRIVE PLATE	B12 D10	BJP

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

A1 INSTALLATION DRAWING

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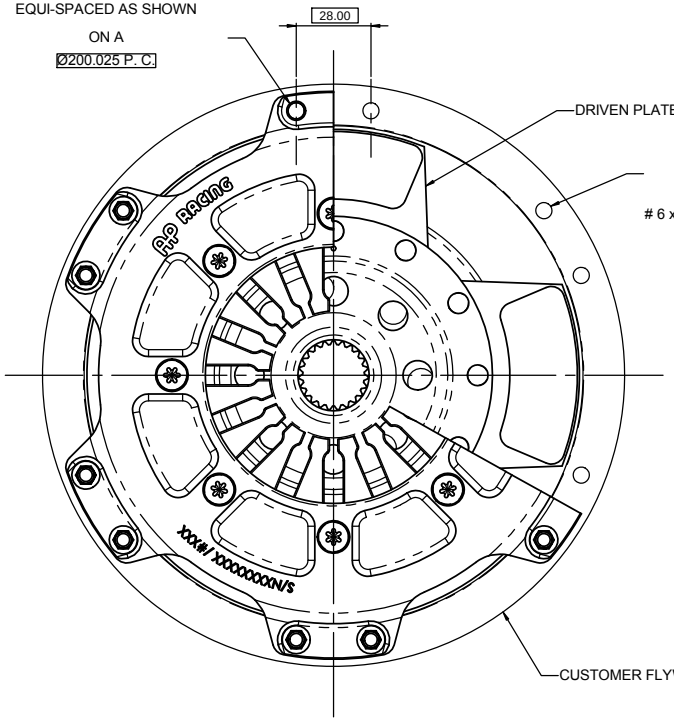
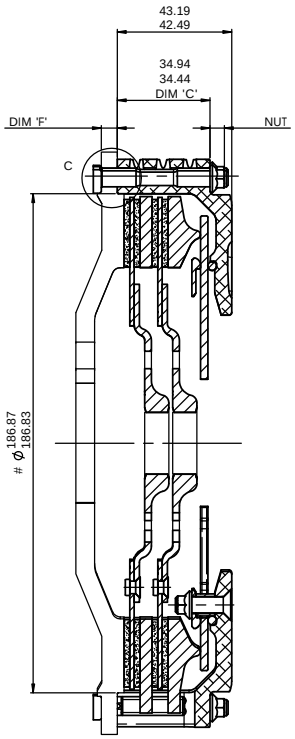
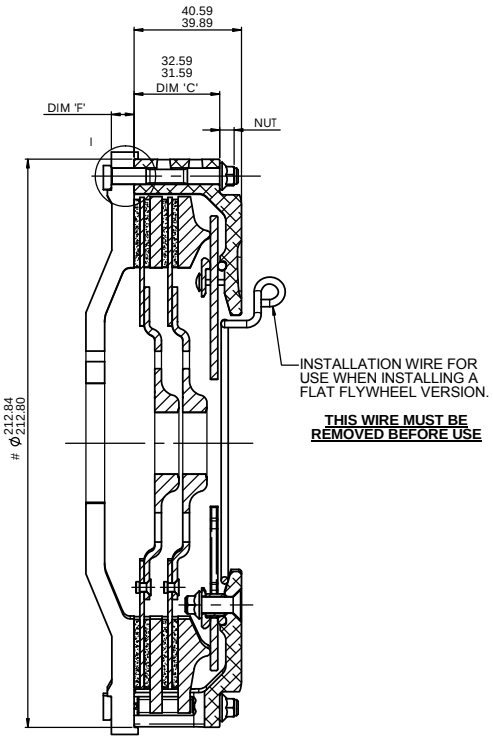
6 x 2 MOUNTING HOLES Ø6.15/6.05
EQUI-SPACED AS SHOWN
ON A
Ø200.025 P. C.

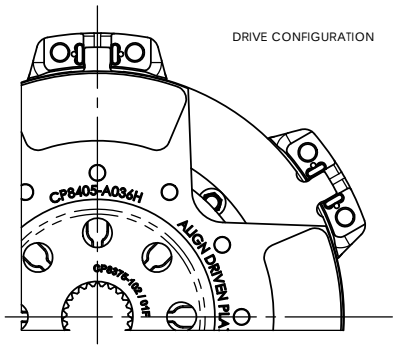


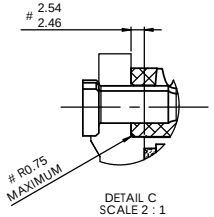
FLYWHEEL DIMENSIONS





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)

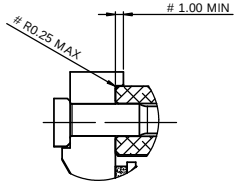
LENGTH OF STUD REQUIRED TO BE CALCULATED THUS :

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

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

SCALE 1:1	SHEET 2 OF 3
DRAWN	Jeremy Govan
APPROVED	
DERIVED FROM	CP8372 / CP7972

TITLE
Ø184mm (7,25") 2 PLATE CLUTCH INSTALLATION

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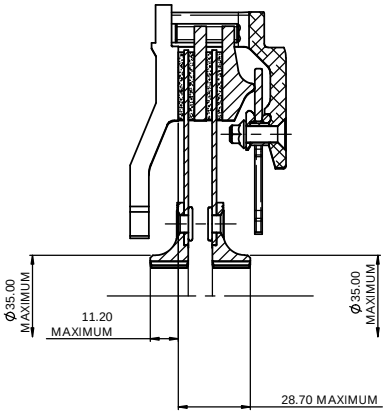
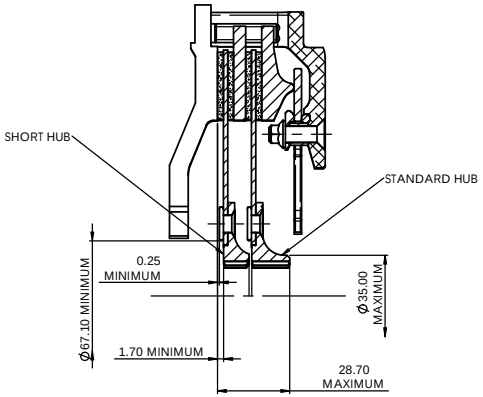
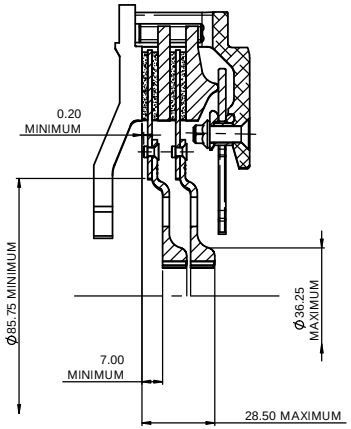


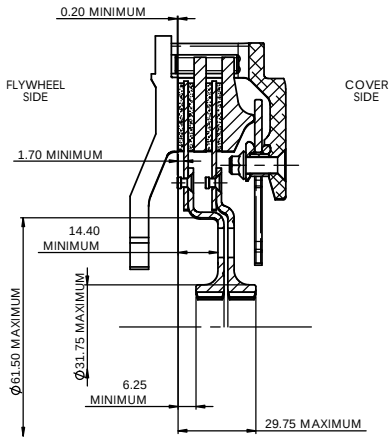
BACK TO BACK DRIVEN PLATES
(CP8401 AND CP8601 TYPE)



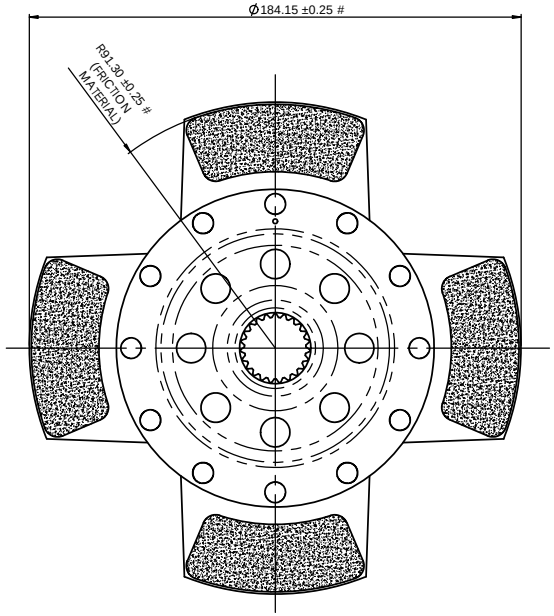
REDUCED OFFSET DRIVEN PLATES
(CP8401 AND CP8601 TYPE)



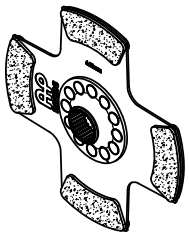
NESTED TYPE DRIVEN PLATES
(CP7972 TYPE)



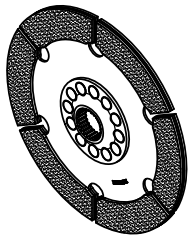
ALTERNATIVE
NESTED TYPE DRIVEN PLATE
(CP8172 TYPE)



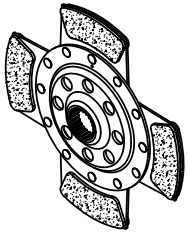
DIMENSIONS FOR ALL STYLES, 4 AND 6 PADDLE DRIVEN PLATES



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 (4 PADDLE)	NUMBER REQUIRED	SPLINE	PART NUMBER		NUMBER REQUIRED	SPLINE	PART NUMBER		NUMBER REQUIRED	
CP8401-A036H	2	1.00" x 23T	CP8401-A036H	STANDARD HUB	1	1.00" x 23T	CP8405-A036H		2	1.00" x 23T
			CP8401-G036H	SHORT HUB	1	1.00" x 23T				
			CP8401-A040H	STANDARD HUB	1	1 5/32" x 26T				
			CP8401-G040H	SHORT HUB	1	1 5/32" x 26T				
6 PADDLE							ALTERNATIVE NESTED TYPE			
CP8601-A036H	2	1.00" x 23T	CP8601-A036H	STANDARD HUB	1	1.00" x 23T	CP8172-10FM4	FLYWHEEL SIDE	1	1.00" x 23T
			CP8601-G036H	SHORT HUB	1	1.00" x 23T	CP8172-11FM4	COVER SIDE	1	1.00" x 23T

SCALE 1:1	SHEET 3 OF 3
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