A1 INSTALLATION DRAWING

IF THIS DOCUMENT IS PRINTED IN HARDCOPY, IT IS FOR INFORMATION USE ONLY AND THEREFORE IS NOT SUBJECT TO UPDATING CONTROLS. ALWAYS REFER TO SOLIDWORKS VIEWER FOR LATEST ISSUE

FIRST ANGLE PROJECTION

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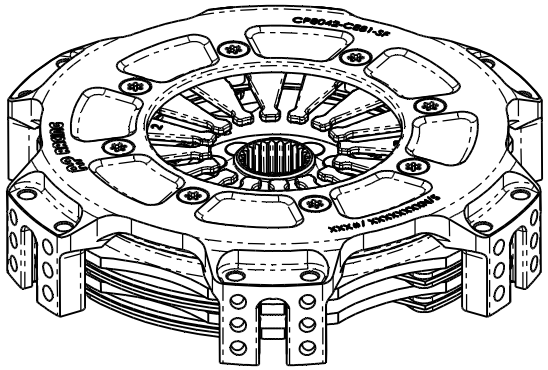
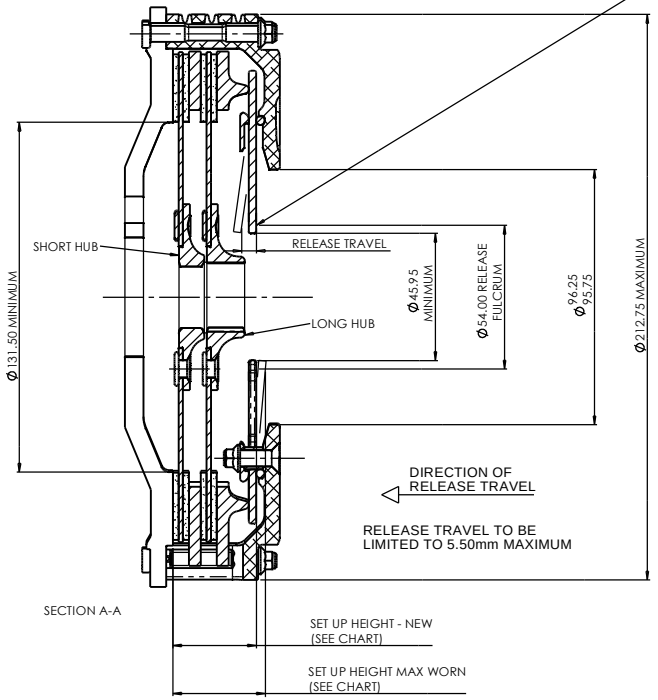
Issue No.	Alterations Date & No.	Particulars	Zone	Initials
1	08/12/14 C4825	FIRST ISSUE	#	JG

CP8042 - 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).



CP8042 CLUTCH FAMILY

MAXIMUM DYNAMIC TORQUE CAPACITY	
(Nm)	636
(ft.lb)	469
RELEASE LOAD	
Max. Peak New (N)	3500
Max. Peak Worn (N)	4400
WEAR IN (See Note)	0.75
Set Up Height New	32.27 30.52
Set Up Height Worn - MAX	34.78
(Set Up Height is caluclated from the flywheel friction face.)	
Release Ratio	3.31
Estimated Assembly Mass (Inc. driven plates shown) = 2.98 Kg	
Estimated Assembly Inertia (Inc. driven plates shown) = 0.01595 Kgm²	
Estimated Driven Plate Inertia = 0.003567 Kgm²	

PERFORMANCE SUFFIX	CH
For Reference	
Diaphragm Spring Rate	CRV
Clutch Ratio	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. **CP8042-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

DRIVEN PLATES	Part No.	Spline
LONG HUB	CP8401-A036H	1" X 23 T
SHORT HUB	CP8401-G036H	1" X 23 T

SCALE 1:1 | SHEET 1 OF 2

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

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

DRG NO. CP8042CD

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Issue No.	Alterations: Date & No.	Particulars	Zone	Initials
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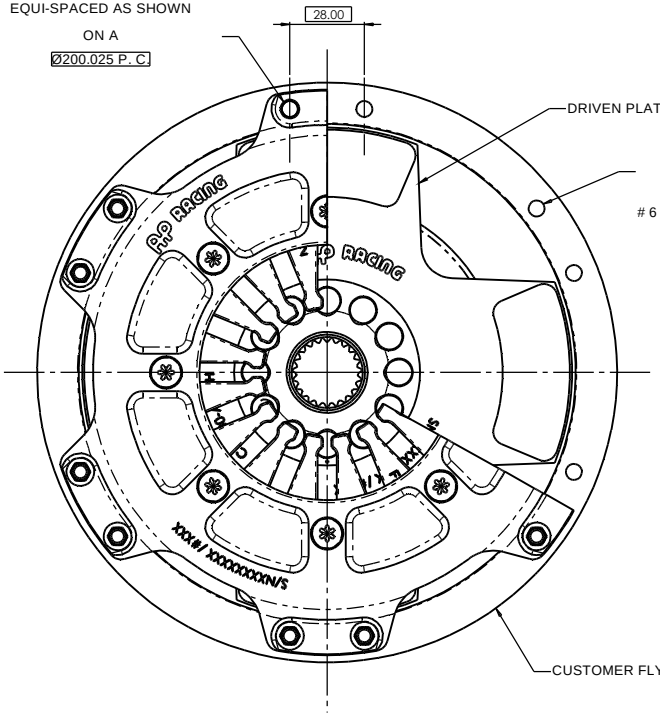
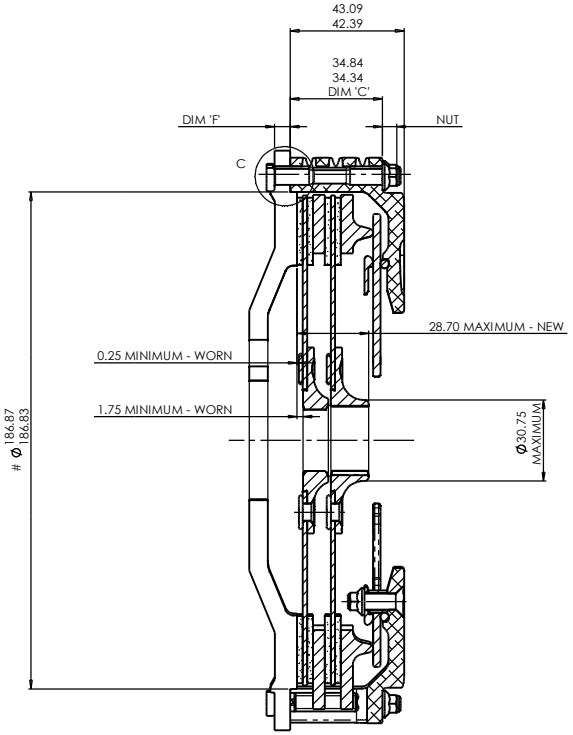
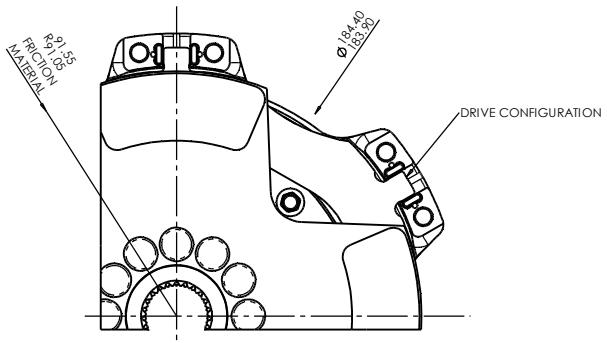
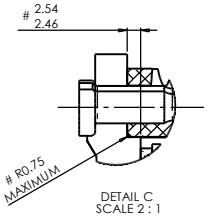
6 x 2 MOUNTING HOLES Ø6.15/6.05
EQUI-SPACED AS SHOWN
ON A
Ø200.025 P. C.



FLYWHEEL DIMENSIONS







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.

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

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

DRG NO. CP8042CD