N:\SolidWorks\Customer\cp2116-1cd.slddrw

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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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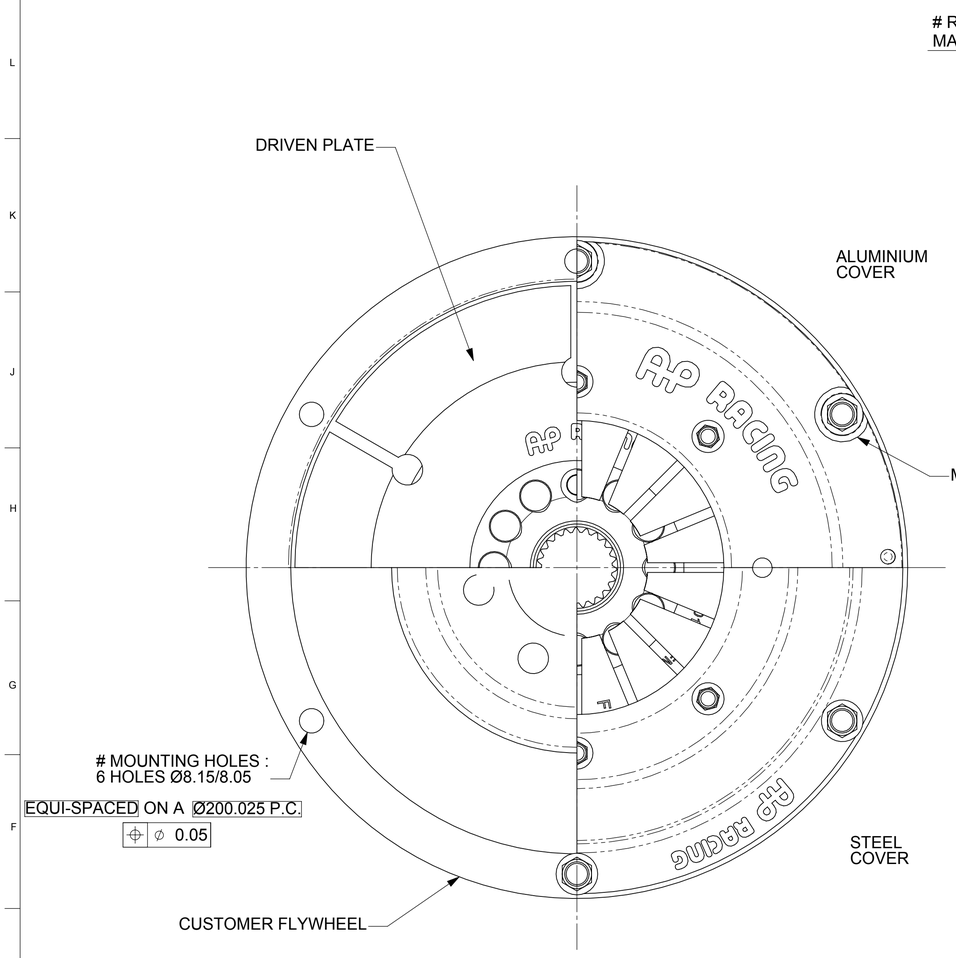
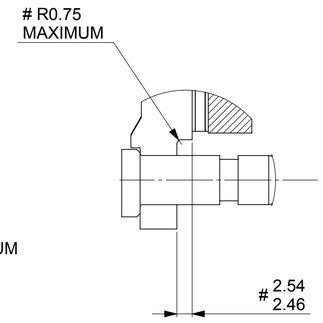
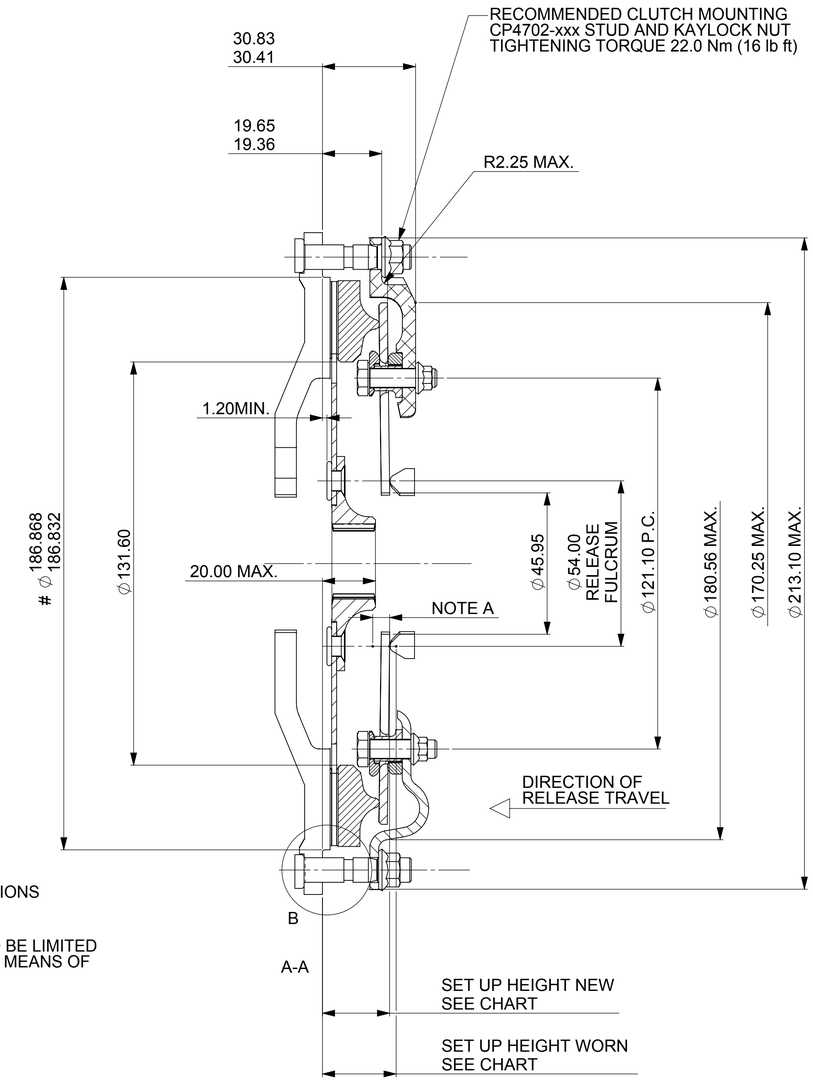




DETAIL B SCALE 2 : 1



FLYWHEEL DIMENSIONS

NOTE A :
RELEASE TRAVEL TO BE LIMITED TO 5.50 MAXIMUM BY MEANS OF AN EXTERNAL STOP.

Issue No.	Alterations: Date & No.	Particulars	Zone	Initials
4	01/02/10 C3789	REDRAWN IN SOLIDWORKS. CRV ASSEMBLY: RELEASE LOAD - MAX PEAK WORN 4400N WAS 347daN TORQUE CAPACITY: 424Nm WAS 425Nm ORA ASSEMBLY: RELEASE LOAD - MAX PEAK WORN 3300N WAS 222daN TORQUE CAPACITY: 266Nm WAS 280Nm GRN ASSEMBLY: RELEASE LOAD - MAX PEAK WORN 2200N WAS 154daN TORQUE CAPACITY: 164Nm WAS 195Nm ALL REF'S: MAX PEAK NEW RELEASE LOAD ADDED.	#	JG
5	07/10/10	DRIVEN PLATE THICKNESS NEW WAS 7.08 WORN WAS 6.68	#	JG
6	15/06/15 C4165	SUH CHANGES: CRV: 23.21/20.82 WAS 23.82/21.60 25.97 WAS 26.30 ORA: 23.46/21.06 WAS 24.09/21.87 33.46 WAS 26.57 GRN: 22.63/20.25 WAS 25.16/22.98 25.15 WAS 27.57	#	JG

DRIVEN PLATES	
SPLINE SIZE	DRIVEN PLATE CP2012 TYPE
1.00" x 23	CP2012-165FM3
7/8" x 20	CP2012-166FM3
29 x 10	CP2012-199FM3
1"5/8 x 26	CP2012-171FM3
FOR OTHER SPINE SIZES PLEASE CONTACT AP RACING	

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).

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. RUNOUT AT R77.2 <=0.08 MAX. WHEN ASSEMBLED TO CRANKSHAFT.

TORQUE CAPACITY :-

FOR APPLICATIONS EXCEEDING THE MAXIMUM RECOMMENDED FIGURES PLEASE CONTACT A.P. RACING.

CLUTCH 'WEAR IN'

THIS CLUTCH HAS BEEN DESIGNED TO ACHIEVE 0.75mm 'WEAR IN' MINIMUM.
DRIVEN PLATE THICKNESS NEW: 2.63 NOMINAL
DRIVEN PLATE THICKNESS WORN: 1.88 MINIMUM

ALTERNATIVE CLUTCH MOUNTING:
CAP HEAD BOLT (C'BORED TREAD)
TIGHTENING TORQUE 22.0 Nm (16 lb ft)

CLUTCH ASSEMBLY PART No.	COVER TYPE	SET UP HEIGHT NEW	SET UP HEIGHT MAX. WORN	RECOMMENDED MAX. DYNAMIC TORQUE CAPACITY Nm (lb/ft)	RELEASE LOAD (N) MAX. PEAK NEW	RELEASE LOAD (N) MAX. PEAK WORN
CP2116ACRV CP2116CRV	ALUMINIUM STEEL	23.21 20.82	25.72	424 (313)	3500	4400
CP2116AORA CP2116ORA	ALUMINIUM STEEL	23.46 21.06	25.97	266 (196)	2400	3300
CP2116AGRN CP2116GRN	ALUMINIUM STEEL	22.63 20.25	25.15	164 (121)	1600	2200

ASSMBLEY INERTIA			
CLUTCH TYPE	COMPLETE ASSY. WEIGHT INC. D/P'S.	COMPLETE ASSY. INERTIA INC. D/P'S.	D/P AND HUB INERTIA
STEEL COVER ALUMINIUM COVER	3.07 kg 2.77 kg	0.018 kgm² 0.016 kgm²	0.0018 kgm²

SCALE 1:1	SHEET 1 OF 1
DRAWN	Jeremy Govan
APPROVED	
DERIVED FROM	CP2116-1CD (MEDUSA)

TITLE
Ø 7,25" (Ø184.00mm) SINGLE PLATE CLUTCH ASSEMBLY

DRG NO. CP2116-1CD