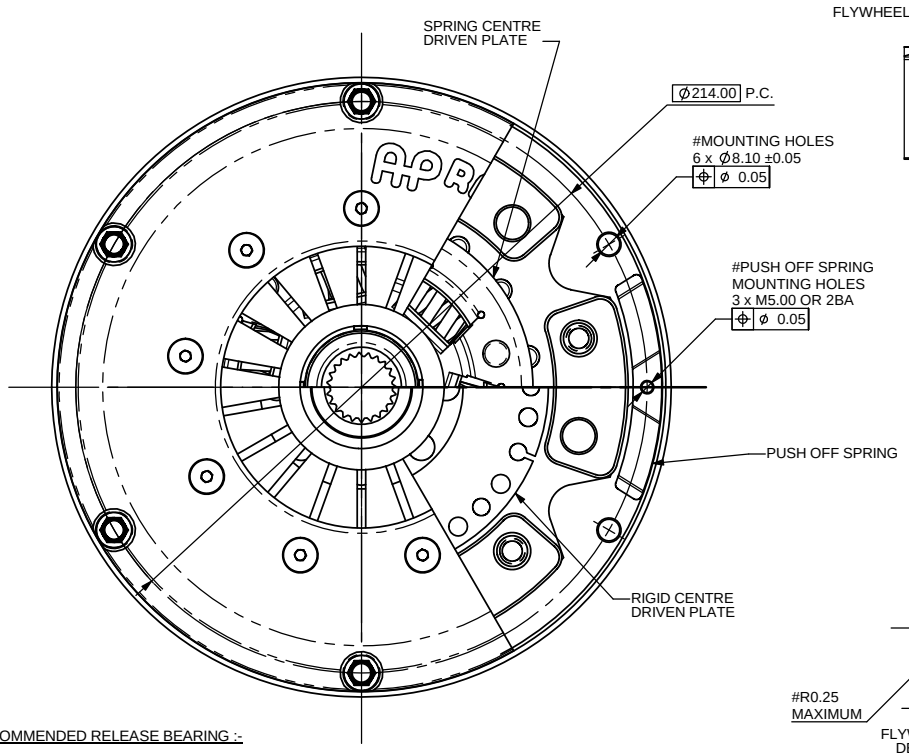
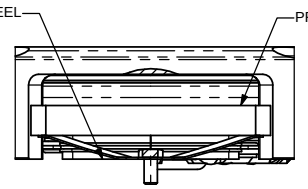
A1 INSTALLATION DRAWING

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

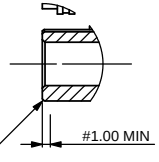
FIRST ANGLE PROJECTION

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

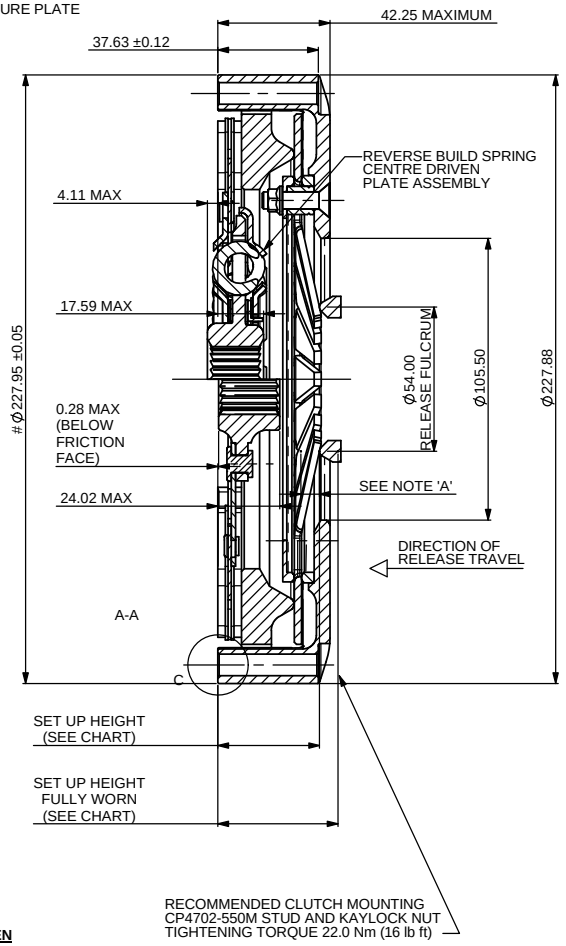




3 OFF PUSH OFF SPRINGS TO BE FITTED TO THE FLYWHEEL AS SHOWN.



FLYWHEEL SPIGOT DETAIL C (2 : 1)



RECOMMENDED CLUTCH MOUNTING
CP4702-550M STUD AND KAYLOCK NUT
TIGHTENING TORQUE 22.0 Nm (16 lb ft)

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: 8.89 NOM
DRIVEN PLATE THICKNESS WORN: 7.80 MIN

THIS CLUTCH ASSEMBLY IS ONLY SUITABLE FOR USE WITH REVERSE BUILD SPRING CENTRE DRIVEN PLATE ASSEMBLIES.

NOTE A :
RELEASE TRAVEL TO BE LIMITED TO 8.00 MAXIMUM BY MEANS OF AN EXTERNAL STOP.

FLYWHEEL DIMENSIONS

DRIVEN PLATES		RIGID TYPE		SPRING CENTRE TYPE	
SPLINE SIZE	SPLINE REF	4 PADDLE PLATE CP5214 TYPE	6 PADDLE PLATE CP5216 TYPE	4 PADDLE	6 PADDLE
0.87x20Tx30°	26		CP5216-20		
0.87x21Tx30°	29	CP5214-25			
1.00x22Tx30°	34				CP4816-21
1.00x23Tx30°	36		CP5216-19		CP4816-20
24,0x24Tx30°	38			CP4814-31	
1.16x26Tx30°	40		CP5216-21		

CLUTCH ASSEMBLY PART No.	SET UP HEIGHT NEW	SET UP HEIGHT MAX. WORN	RECOMMENDED MAX. DYNAMIC TORQUE CAPACITY Nm (lb/ft)	RELEASE LOAD (daN) MAX. PEAK WORN
CP3921ACRV	42.61 38.07	46.29 (0.75 WEAR-IN)	525 (387)	420
CP3921AGRY	42.39 37.85	46.07 (0.75 WEAR-IN)	420 (310)	350

ASSEMBLY INERTIA

DRIVEN PLATE TYPE	COMPLETE ASSY. WEIGHT INC. D/P'S. (kg)	COMPLETE ASSY. INERTIA INC. D/P'S. (kgm²)	D/P AND HUB INERTIA. (kgm²)
4 PADDLE RIGID	3.953	0.0266	0.0035
6 PADDLE RIGID	4.117	0.0279	0.0047
4 PADDLE SPR/CENTRE	4.085	0.0273	0.0041
6 PADDLE SPR/CENTRE	4.555	0.0289	0.0058

Issue No.	Alterations Date & No.	Particulars	Zone	Initials
2	10/06/19 C5366	REDRAWN ON SOLIDWORKS CP3921ACRV ADDED ALL DATA RECALCULATED	#	BJP

SCALE 1:1	SHEET 1 OF 1
DRAWN	BRIAN PAYNE
APPROVED	
DERIVED FROM	CP3871-1CD

TITLE
Ø200 CERAMETALLIC CLUTCH

DRG NO. CP3921-1CD