

A1 INSTALLATION DRAWING

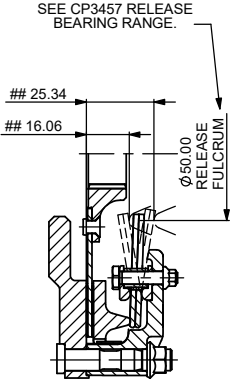
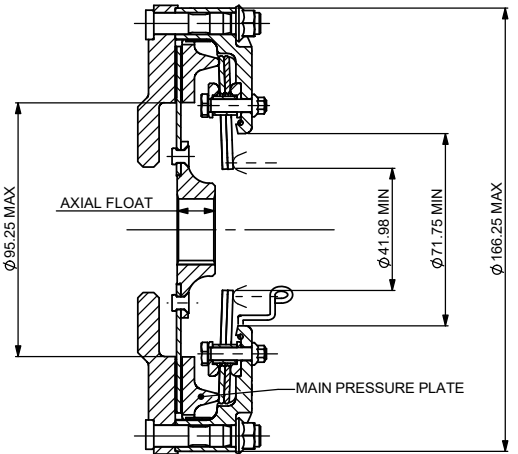
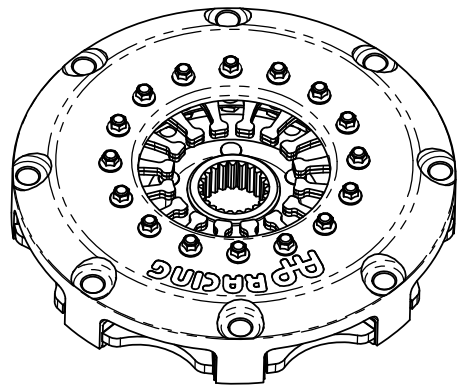
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CP6001 Ø140mm (5.5") SINTERED CLUTCH ASSEMBLY



DIRECTION OF RELEASE TRAVEL

RELEASE TRAVEL TO BE LIMITED TO 3.80mm MAXIMUM

BEARING POSITION

TO ENSURE ADEQUATE RELEASE TRAVEL AND CLUTCH LIFE THESE LIMITS HAVE BEEN CALCULATED USING AN ADDITIONAL 20% RELEASE TRAVEL AND 50% MORE WEAR IN THAN SPECIFIED.

THESE FIGURES COVER THE FULL RANGE OF CLUTCHES IN THE CP6001 FAMILY.

CP6001 CLUTCH FAMILY			
MAXIMUM DYNAMIC TORQUE CAPACITY			
(Nm)	210	157	
(ft.lb)	155	116	
RELEASE LOAD			
Max. Peak Worn (N)	5400	4000	
Max. Peak New (N)	3600	3100	
WEAR IN (See Note)	0.75	0.75	
Set Up Height New - NOM	21.63	21.37	
Set Up Height Worn - MAX	24.35	24.13	
(Set Up Height is calculated from the flywheel friction face.)			
Release Ratio	2.64	2.64	
Estimated Assembly Mass (Inc. Drive Plates) = 1.80 Kg			
Estimated Assembly Inertia (Inc. Drive Plates) = 0.00615 Kgm ²			
Estimated Drive Plate and Hub Inertia = 0.00065 Kgm ²			

PERFORMANCE SUFFIX	CH	OH			
For Reference					
Diaphragm Spring Rate	CRV	ORA			
Clutch Ratio	HiR	HiR			

MATERIAL SUFFIX	DRIVE PLATE MATERIAL	DRIVE PLATE THICKNESS
90	SINTERED	2.63mm

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. **CP6001-CH90-SF**

WEAR IN

THIS CLUTCH HAS BEEN DESIGNED FOR THE WEAR IN INDICATED ABOVE.

DRIVEN PLATE THICKNESS NEW: 2.63mm MIN

DRIVEN PLATE THICKNESS WORN: 1.84mm MIN

DRIVEN PLATES AVAILABLE WITH THE FOLLOWING SPLINE SIZES	
SPLINE	PART No.
1"X23T	CP3407-36FM3
7/8" x 20T	CP3407-26FM3
1 5/32" x 26T	CP3407-40FM3
29.0 x10T	CP3407-8FM3
1 1/8" x10T	CP3407-4FM3

Issue No	Alterations		Zone	Initials
	Date & No.	Particulars		
1	13-02-03 C2162	FIRST ISSUE	#	RDO
2	13-03-03	SUH'S CORRECTED BRG PART NO. CORRECTED	#	RDO
3	28/07/10 C3901	TORQUE CAPACITY CHANGED FROM 252Nm AND 186Nm TO 210Nm AND 157Nm	#	AB
4	17/08/21 C5375_01	'MAX PEAK NEW' WAS 'AT TRAVEL' 'MAX PEAK WORN', 'MAX PEAK NEW' AND 'RELEASE RATIO' VALUES CORRECTED TO CONFORM WITH MIS1000	#	K9 JRV

SCALE 1:1 SHEET 1 OF 2

DRAWN RICHARD GOSTICK

APPROVED

DERIVED FROM

TITLE
 Ø140mm SINGLE PLATE SINTERED CLUTCH ASSEMBLY

DRG NO. cp6001cd

A1 INSTALLATION DRAWING

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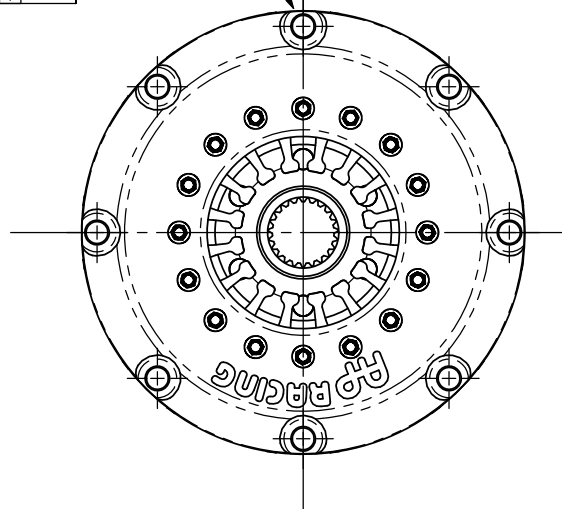
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FLYWHEEL DIMENSIONS

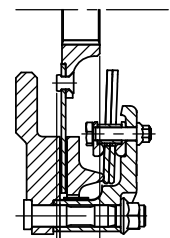
FLAT FLYWHEEL - SUFFIX FF

STEPPED FLYWHEEL SUFFIX SF

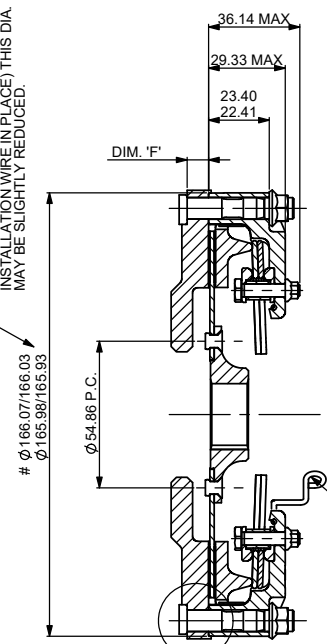
8 MOUNTING HOLES Ø8.15/8.05 TO SUIT M8 x 1.0 MOUNTING STUDS EQUISPACED ON A Ø154.45 P.C.
MIN C'BORE Ø17.20
⊕ ⊖ 0.05



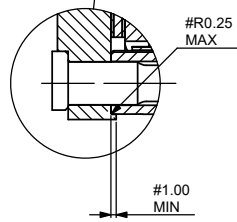
HUB ENVELOPE (FROM FLYWHEEL FRICTION FACE)



THE CLUTCH SPIGOT IS DESIGNED TO BE THIS CLAMPEL TO BE LOCATED ON THE FLYWHEEL BEFORE FITTING WITH THE INSTALLATION WIRE IN PLACE. THIS DIA. MAY BE SLIGHTLY REDUCED.

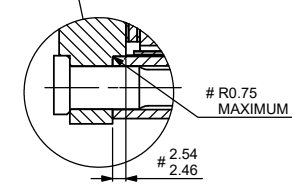
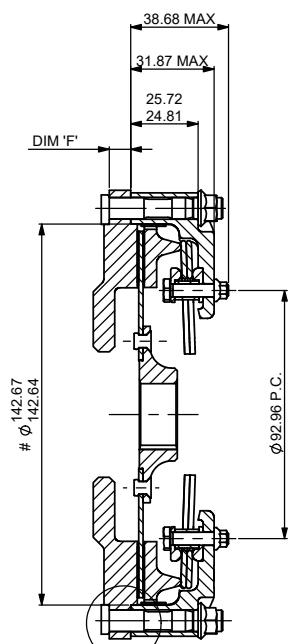


INSTALLATION WIRE FOR USE WHEN INSTALLING A FLAT FLYWHEEL VERSION TO ENSURE FLYWHEELSIDE CARBON IS LOCATED ON THE COVER LUGS
THIS WIRE MUST BE REMOVED BEFORE USE



RECOMMENDED CLUTCH MOUNTING :
(FOR ALL TYPES OF ASSEMBLY)
M8 x 1.0. CP4702 FAMILY STUD AND K-LOCK NUT.
TIGHTENING TORQUE : 19Nm (14 ft.lb)
LENGTH OF STUD REQUIRED TO BE CALCULATED THUS :
STUD LENGTH = DIMENSIONS 'C' + 'F' + ('R' OPTIONAL) + 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. RUNOUT AT R77.2, ≤0.08 WHEN ASSEMBLED TO CRANKSHAFT.

FLYWHEEL DIMENSIONS



Issue No	Alterations			Zone	Initials
	Date & No.	Particulars	#		
1	08/10/02 C2098	FIRST ISSUE			JG

SCALE 1:1	SHEET 2 OF 2
DRAWN	RICHARD GOSTICK
APPROVED	
DERIVED FROM	
TITLE Ø140mm SINGLE PLATE SINTERED CLUTCH ASSEMBLY	
DRG NO.	cp6001cd