

A1 INSTALLATION DRAWING

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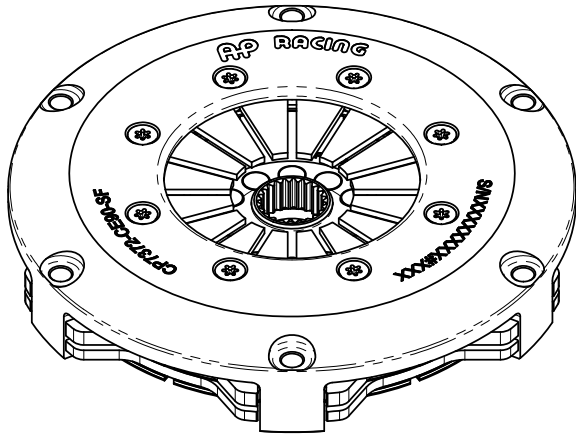


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CP7372, Ø184mm (7.25") SINTERED CLUTCH ASSEMBLY



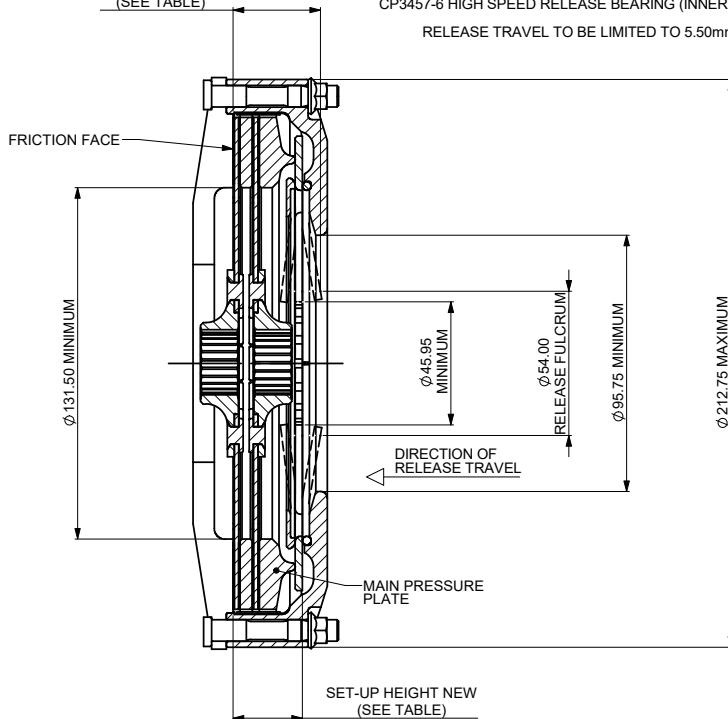
RECOMMENDED RELEASE BEARING :

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).

RELEASE TRAVEL TO BE LIMITED TO 5.50mm MAXIMUM

SET UP HEIGHT
WORN MAXIMUM
(SEE TABLE)



CP7372 CLUTCH FAMILY

MAXIMUM DYNAMIC TORQUE CAPACITY

(Nm)	848	532	327		
(ft.lb)	625	392	241		

RELEASE LOAD

Max. Peak New (N)	3500	2400	1600		
Max. Peak Worn (N)	4400	3300	2200		

WEAR IN (See Note)	0.75	0.75	0.75		
--------------------	------	------	------	--	--

Set Up Height New	28.76	29.55	28.73		
	26.00	26.77	25.97		
Set Up Height Worn - MAX	31.97	32.76	31.95		

(Set Up Height is calculated from the flywheel friction face.)

Release Ratio	4.10	4.10	4.10		
---------------	------	------	------	--	--

Estimated Assembly Mass (Excluding Driven Plates) = 2.75 Kg

Estimated Assembly Inertia (Excluding Driven Plates) = 0.0177Kgm²

Estimated Driven Plate Inertia - See Sheet 3

PERFORMANCE SUFFIX

	CE	OE	NE		
For Reference					
Diaphragm Spring Rate	CRV	ORA	GRN		
Clutch Ratio	EHR	EHR	EHR		

MATERIAL SUFFIX

	DRIVE PLATE MATERIAL	DRIVE PLATE THICKNESS		
90	SINTERED	2.63mm		

FLYWHEEL TYPE

	SUFFIX	COMMENTS
FLAT FLYWHEEL	FF	N/A
STEPPED FLYWHEEL	SF	FOR INSTALLATION DATA SEE SHEET 2

Sample AP Racing Part No.

CP7372-CE90-SF

WEAR IN

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

DRIVEN PLATE THICKNESS NEW: 2.63mm NOMINAL

DRIVEN PLATE THICKNESS WORN: 2.26mm MIN

DRIVEN PLATES - SEE SHEET 3

Issue No.	Alterations		Zone	Initials
	Date & No.	Particulars		
	FOR ALL	ISSUE RECORDS PRE SEE ARCHIVE COPY	13	
5	19/09/14 C4778	DRAWING UPDATED TO CURRENT STANDARD SUH CHANGES (AS NOW MEASURED FROM FRICTION FACE NOT FLYWHEEL STEP) CE ASSEMBLY: 28.76 WAS 31.31, 26.00 WAS 28.48, 31.97 WAS 34.33 OE ASSEMBLY: 29.55 WAS 32.06, 26.77 WAS 29.20, 32.76 WAS 35.08 NE ASSEMBLY: 28.73 WAS 31.59, 25.97 WAS 28.77, 31.95 WAS 34.61	#	bcB
6	02/04/15	CP2567-33FM3 AND -34FM3 ADDED TO SHEET 3	#	JG
7	25/10/18	DRIVE PLATES UPDATED PICTORIALLY	#	BJP
8	21/04/21 RAC23405	SHEET 3: DRIVE PLATE PART NUMBERS UPDATED: CP2012-171FM3 WAS CP2012-165FM3 CP2012-199FM3 WAS CP2012-165FM3	#	bcB

SCALE 1:1	SHEET 1 OF 3
DRAWN	DAVID CONSTABLE-BERRY
APPROVED	
DERIVED FROM	CP7972CD
TITLE	Ø184mm (7.25") TWIN PLATE CLUTCH INSTALLATION
DRG NO.	CP7372-1CD

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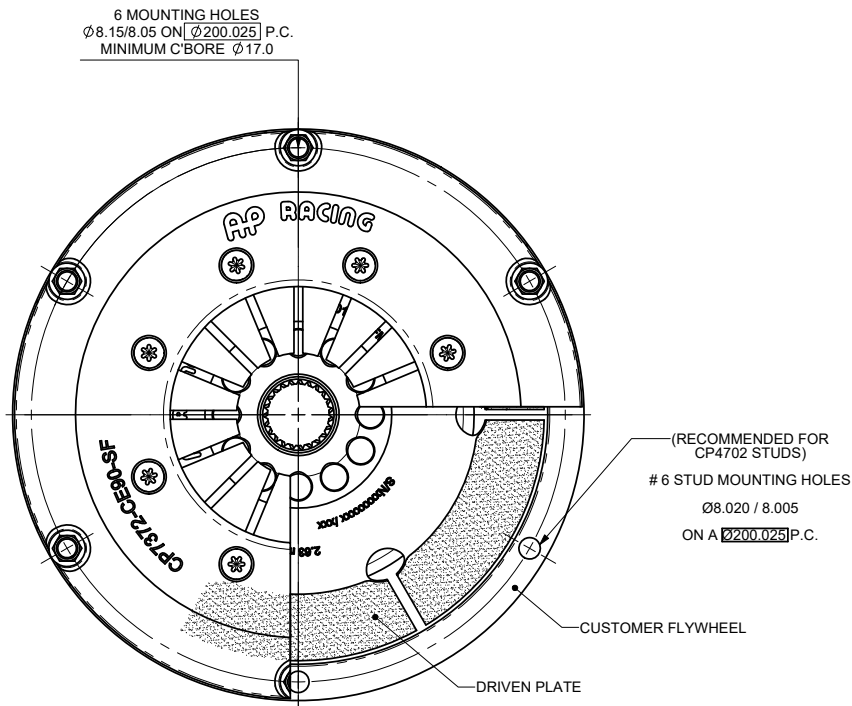
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FLYWHEEL DIMENSIONS STEPPED FLYWHEEL SUFFIX -SF

FLYWHEEL DIMENSIONS



(RECOMMENDED FOR CP4702 STUDS)
6 STUD MOUNTING HOLES
Ø8.020 / 8.005
ON A Ø200.025 P.C.

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)

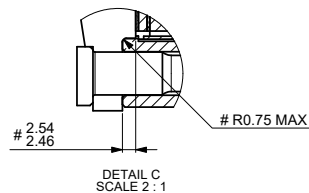
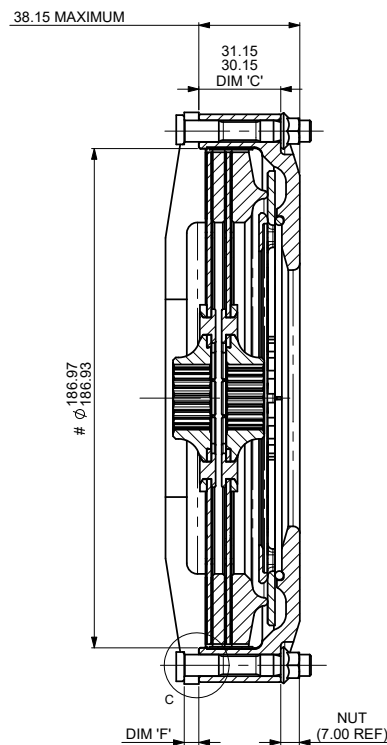
LENGTH OF STUD REQUIRED TO BE
CALCULATED THUS :

STUD LENGTH =
DIMENSIONS 'C' + 'F' + 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.



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

SCALE 1:1	SHEET 2 OF 3
DRAWN	DAVID CONSTABLE-BERRY
APPROVED	
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Ø184mm (7.25") TWIN PLATE CLUTCH INSTALLATION	
DRG NO.	CP7372-1CD

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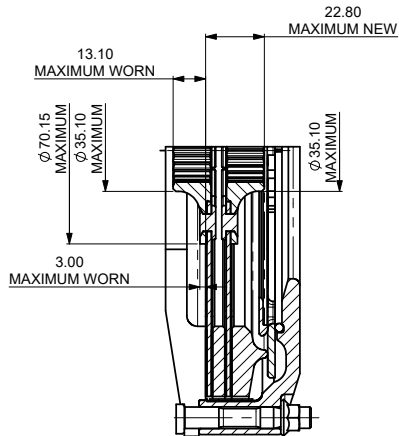
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Issue No.	Alterations		Zone	Initials
	Date & No.	Particulars		
-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-	-

BACK TO BACK DRIVE PLATES (CP2012 AND CP4429 TYPE)

	CP2012 TYPE	CP4429 TYPE
TYPICAL MASS	0.993kg	0.791kg
TYPICAL INERTIA	0.0036kg/m ²	0.0024kg/m ²

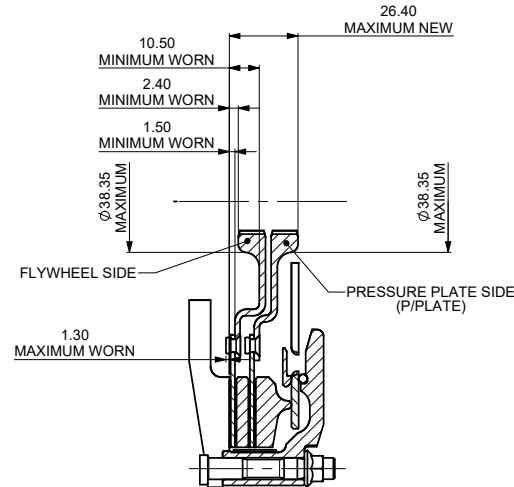
VALUES ARE FOR 2 DRIVEN PLATES



NESTED HUB DRIVE PLATES (CP2567 TYPE)

	CP2567 TYPE
TYPICAL MASS	1.052kg
TYPICAL INERTIA	0.0040kg/m ²

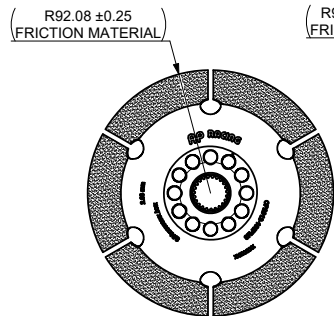
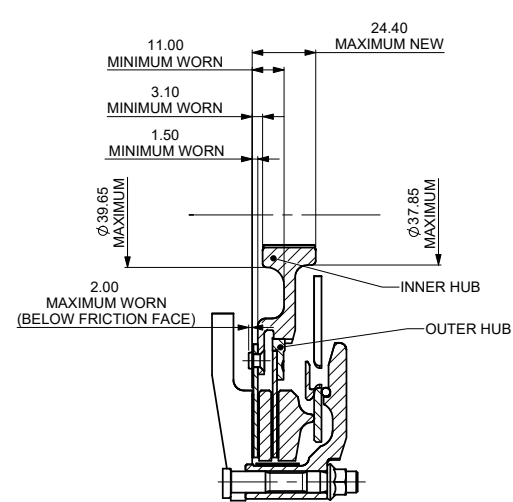
VALUES ARE FOR 2 DRIVEN PLATES



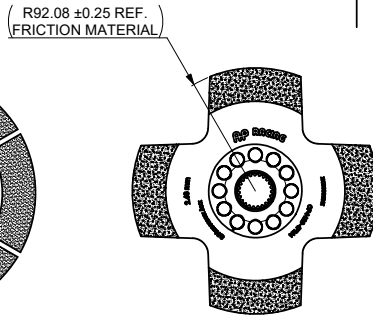
GEAR DRIVE HUB DRIVE PLATES (CP3822 TYPE)

	CP3822 TYPE
TYPICAL MASS	1.236kg
TYPICAL INERTIA	0.0044kg/m ²

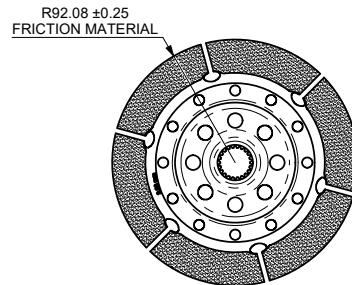
VALUES ARE FOR 2 DRIVEN PLATES



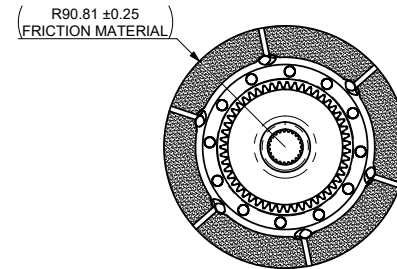
CP2012 TYPE DRIVE PLATE
(1:2 SCALE)



CP4429 TYPE DRIVE PLATE
(1:2 SCALE)



CP2567 TYPE DRIVE PLATE
(P/PLATE SIDE SHOWN)
(1:2 SCALE)



CP3822 TYPE DRIVE PLATE
(1:2 SCALE)

TYPICAL DRIVEN PLATE OPTIONS - CONTACT AP RACING FOR OTHER SPLINE SIZES

BACK TO BACK TYPE						NESTED TYPE				GEAR TYPE			
PART NUMBER	QUANTITY REQUIRED	SPLINE	PART NUMBER	QUANTITY REQUIRED	SPLINE	PART NUMBER	DETAIL	QUANTITY REQUIRED	SPLINE	PART NUMBER	DETAIL	QUANTITY REQUIRED	SPLINE
CP2012-165FM3	2	1" x 23T	CP4429-4FM4	2	1" x 23T	CP2567-23FM3	FLYWHEEL SIDE	1	1" x 23T	CP3822-10FM3	INNER HUB	1	1" x 23T
CP2012-166FM3	2	7/8" x 20T	CP4429-3FM4	2	7/8" x 20T	CP2567-24FM3	P/PLATE SIDE	1	1" x 23T	CP3822-11FM3	INNER HUB	1	7/8" x 20T
CP2012-171FM3	2	1 5/32" x 26T	CP4429-14FM4	2	1 5/32" x 26T	CP2567-7FM3	FLYWHEEL SIDE	1	7/8" x 20T	CP3822-14FM3	INNER HUB	1	1 5/32" x 26T
CP2012-199FM3	2	29.0 x 10T	CP4429-5FM4	2	29.0 x 10T	CP2567-8FM3	P/PLATE SIDE	1	7/8" x 20T	CP3822-15FM3	INNER HUB	1	29.0 x 10T
						CP2567-11FM3	FLYWHEEL SIDE	1	1 5/32" x 26T	OUTER HUBS ALL AS BELOW FOR CP3822 TYPE DRIVE PLATE			
						CP2567-12FM3	P/PLATE SIDE	1	1 5/32" x 26T				
						CP2567-29FM3	FLYWHEEL SIDE	1	29.0 x 10T				
						CP2567-30FM3	P/PLATE SIDE	1	29.0 x 10T				
						CP2567-33FM3	FLYWHEEL SIDE	1	24.0 x 21T	CP2822-31FM3	OUTER HUB	1	N/A
						CP2567-34FM3	P/PLATE SIDE	1	24.0 x 21T				

SCALE 1:2 SHEET 3 OF 3

DRAWN DAVID CONSTABLE-BERRY

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TITLE
Ø184mm (7.25") TWIN PLATE
CLUTCH INSTALLATION

DRG NO. CP7372-1CD