

# A1 INSTALLATION DRAWING

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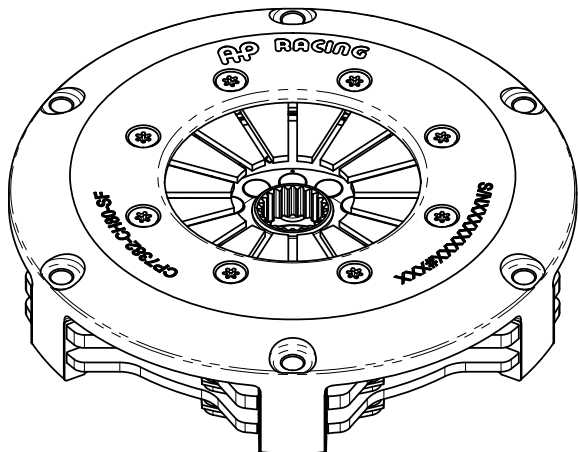
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## CP7382, Ø184mm (7.25") SINTERED CLUTCH ASSEMBLY

## CP7382 CLUTCH FAMILY

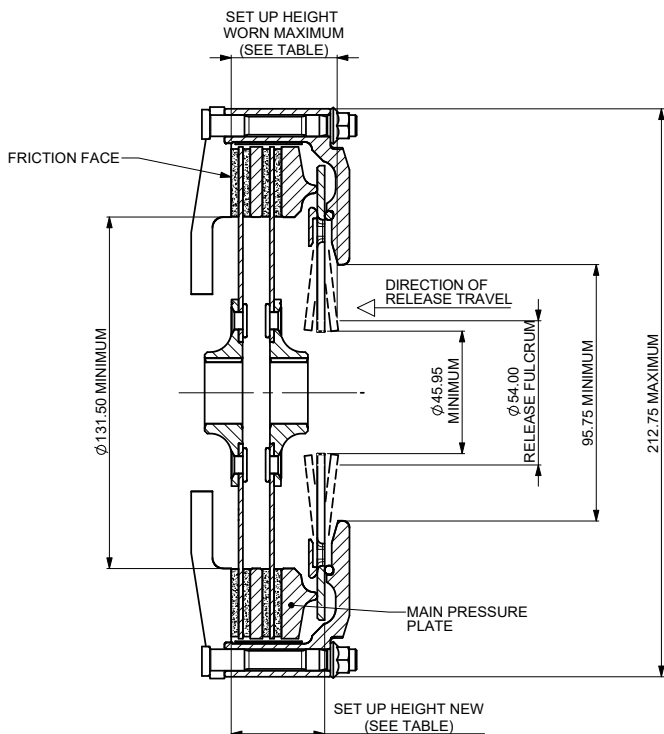


### RECOMMENDED RELEASE BEARING :

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



### MAXIMUM DYNAMIC TORQUE CAPACITY

(Nm)	644	426	266			
(ft.lb)	475	314	196			
<b>RELEASE LOAD</b>						
Max. Peak New (N)	3500	2400	1600			
Max. Peak Worn (N)	4400	3300	2200			
<b>WEAR IN (See Note)</b>						
	0.75	0.75	0.75			
<b>Set Up Height New</b>						
	37.01	37.66	36.92			
	34.64	35.29	34.55			
<b>Set Up Height Worn - MAX</b>						
	39.68	40.34	39.59			
(Set Up Height is calculated from the flywheel friction face.)						
<b>Release Ratio</b>						
	3.42	3.42	3.42			

Estimated Assembly Mass (Inc. Hub with Steel Main Pressure Plate) = 2.79 Kg

Estimated Assembly Inertia (Inc. Hub with Steel Main Pressure Plate) = 0.0181 Kgm<sup>2</sup>

Estimated Driven Plate and Hub Inertia (See Driven Plate Section of Table)

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

MATERIAL SUFFIX	DRIVE PLATE MATERIAL	DRIVE PLATE THICKNESS			
80	CERAMETALLIC	7.11mm			

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

Sample AP Racing Part No. **CP7382-CH80-SF**

WEAR IN
THIS CLUTCH HAS BEEN DESIGNED FOR THE WEAR IN INDICATED ABOVE,
DRIVEN PLATE THICKNESS NEW: 7.15mm MAX
DRIVEN PLATE THICKNESS WORN: 6.74mm MIN

DRIVEN PLATES - SEE SHEET 2				
TYPICAL DRIVEN PLATE SIZES - CONTACT AP RACING FOR OTHERS AVAILABLE				
SPLINE	3 PADDLE (CP8300 TYPE)	4 PADDLE (CP8400 TYPE)	6 PADDLE (CP8600 TYPE)	ORGANIC (CP5386 TYPE)
1" X 23T	CP8300-A036H	CP8400-A036H	CP8600-A036H	CP5386-10
7/8" x 20T	CP8300-A026	CP8400-A026	CP8600-A026	CP5386-12
1 5/32" x 26T	CP8300-A040	CP8400-A040	CP8600-A040	N/A
29.0 x 10T	CP8300-A008	CP8400-A008	CP8600-A008	CP5386-15
TYPICAL INERTIA (Kgm <sup>2</sup> )	0.0008	0.0010	0.0015	0.0012

Issue No.	Alterations		Zone	Initials
	Date & No.	Particulars		
FOR ALL		ISSUE RECORDS PRE SEE ARCHIVE COPY	13	
7	07/10/14 C4778	DRAWING UPDATED TO CURRENT STANDARD  SUH CHANGES (AS NOW MEASURED FROM FRICTION FACE NOT FLYWHEEL STEP) CH ASSEMBLY: 37.01 WAS 39.95, 34.64 WAS 37.05, 39.68 WAS 42.97 OH ASSEMBLY: 37.66 WAS 40.70, 35.29 WAS 37.77, 40.34 WAS 43.72 NH ASSEMBLY: 36.92 WAS 40.49, 34.55 WAS 37.59, 39.59 WAS 43.51.	#	bcB
8	26/07/19	PICTORIAL UPDATE TO DRIVEN PLATES	#	BJP
9	29/01/20	CORRECTED RELEASE LOADS (NEW/WORN SWAPPED)	K8	BJP
10	21/01/21 RAC23396	DRIVE PLATE THICKNESS WORN 6.74 WAS 6.32	C10	bcB

SCALE 1:1 SHEET 1 OF 2

DRAWN DAVID CONSTABLE-BERRY

APPROVED

DERIVED FROM CP7972

TITLE  
Ø184 (7.25") TWIN PLATE  
CLUTCH INSTALLATION

DRG NO. CP7382-1CD

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FIRST ANGLE PROJECTION

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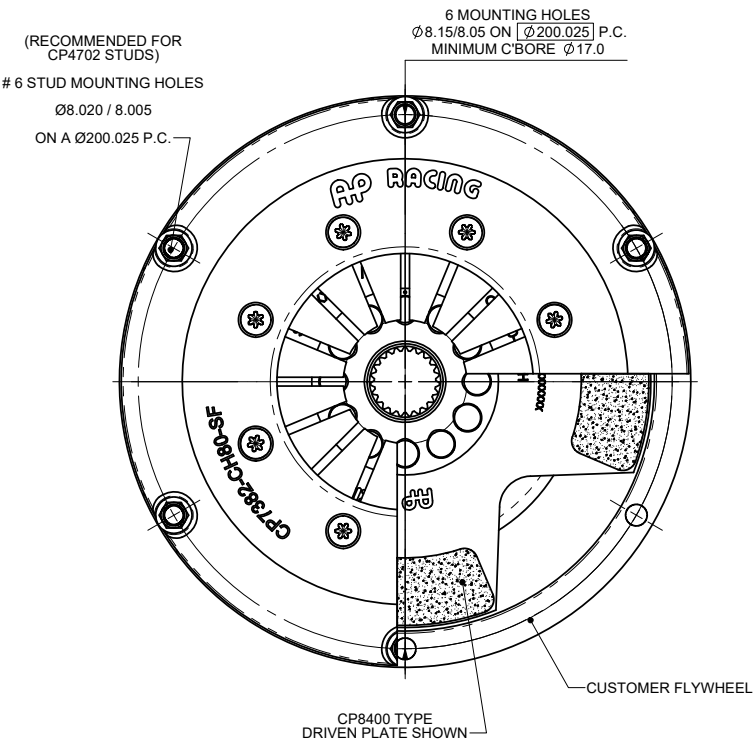


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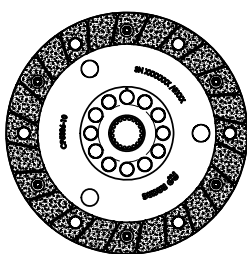
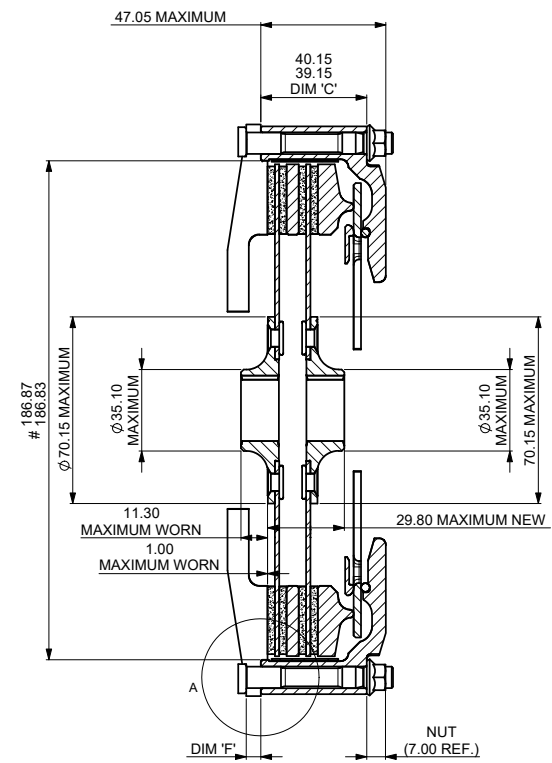
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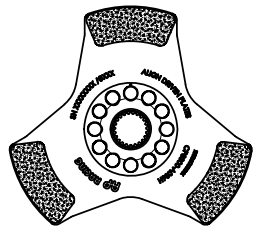
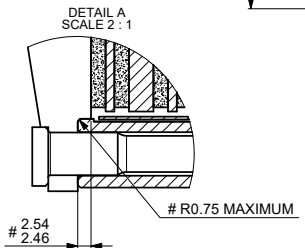
Issue No.	Alterations		Zone	Initials
	Date & No.	Particulars		
-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-	-



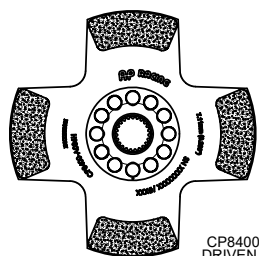
## FLYWHEEL DIMENSIONS # FLYWHEEL DIMENSIONS STEPPED FLYWHEEL SUFFIX -SF



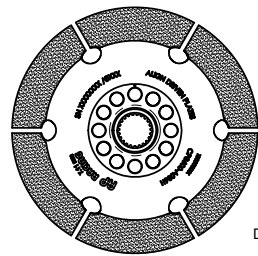
CP5386 TYPE ORGANIC DRIVEN PLATE  
NOTE: (NOT TO EXCEED 7000rpm)  
1:2 SCALE



CP8300 TYPE DRIVEN PLATE  
1:2 SCALE



CP8400 TYPE DRIVEN PLATE  
1:2 SCALE



CP8600 TYPE DRIVEN PLATE  
1:2 SCALE

### 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.

SCALE 1:1	SHEET 2 OF 2
DRAWN	DAVID CONSTABLE-BERRY
APPROVED	
DERIVED FROM	CP7972
TITLE	
Ø184 (7.25") TWIN PLATE CLUTCH INSTALLATION	
DRG NO.	CP7382-1CD