

A1 ASSEMBLY DRAWING

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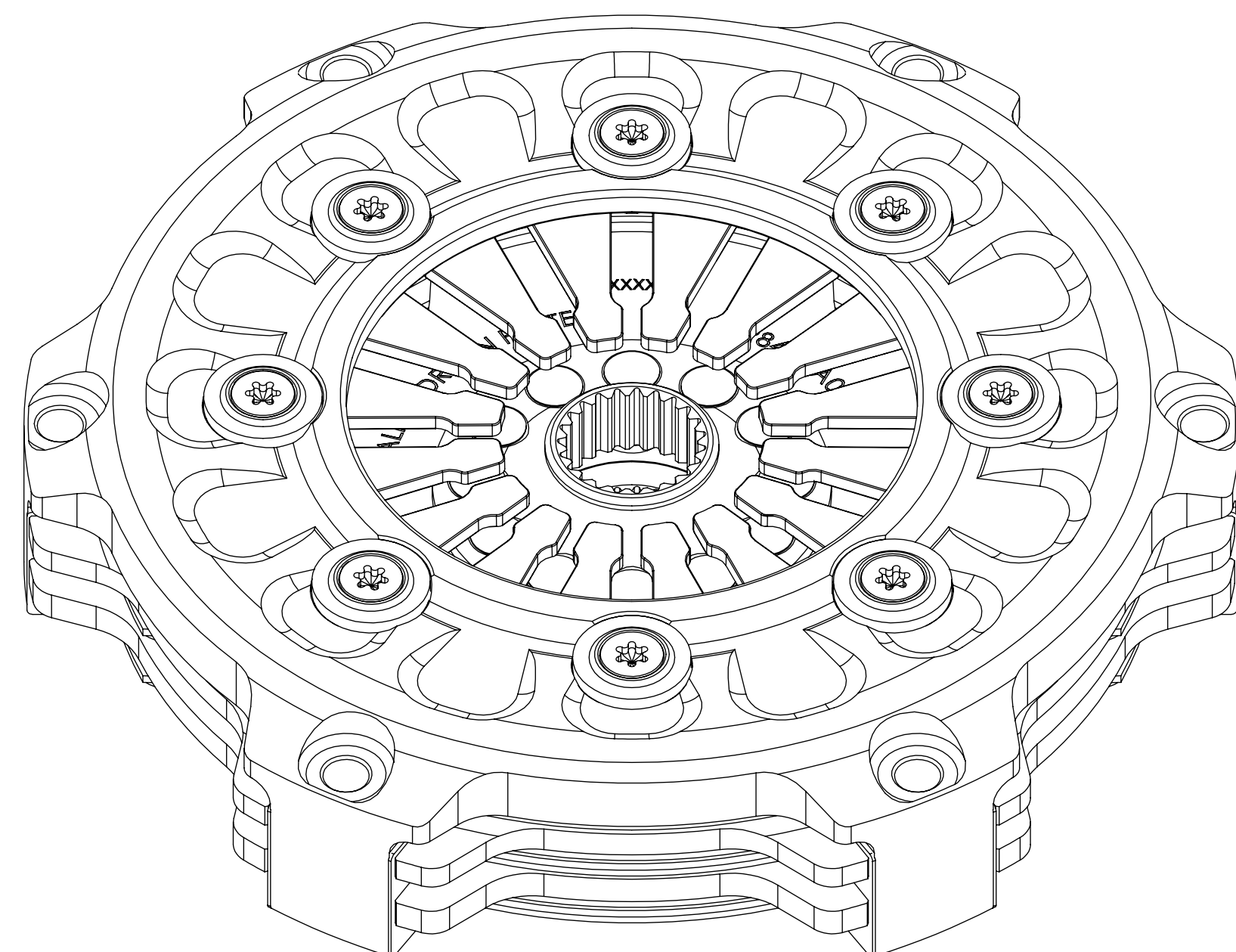


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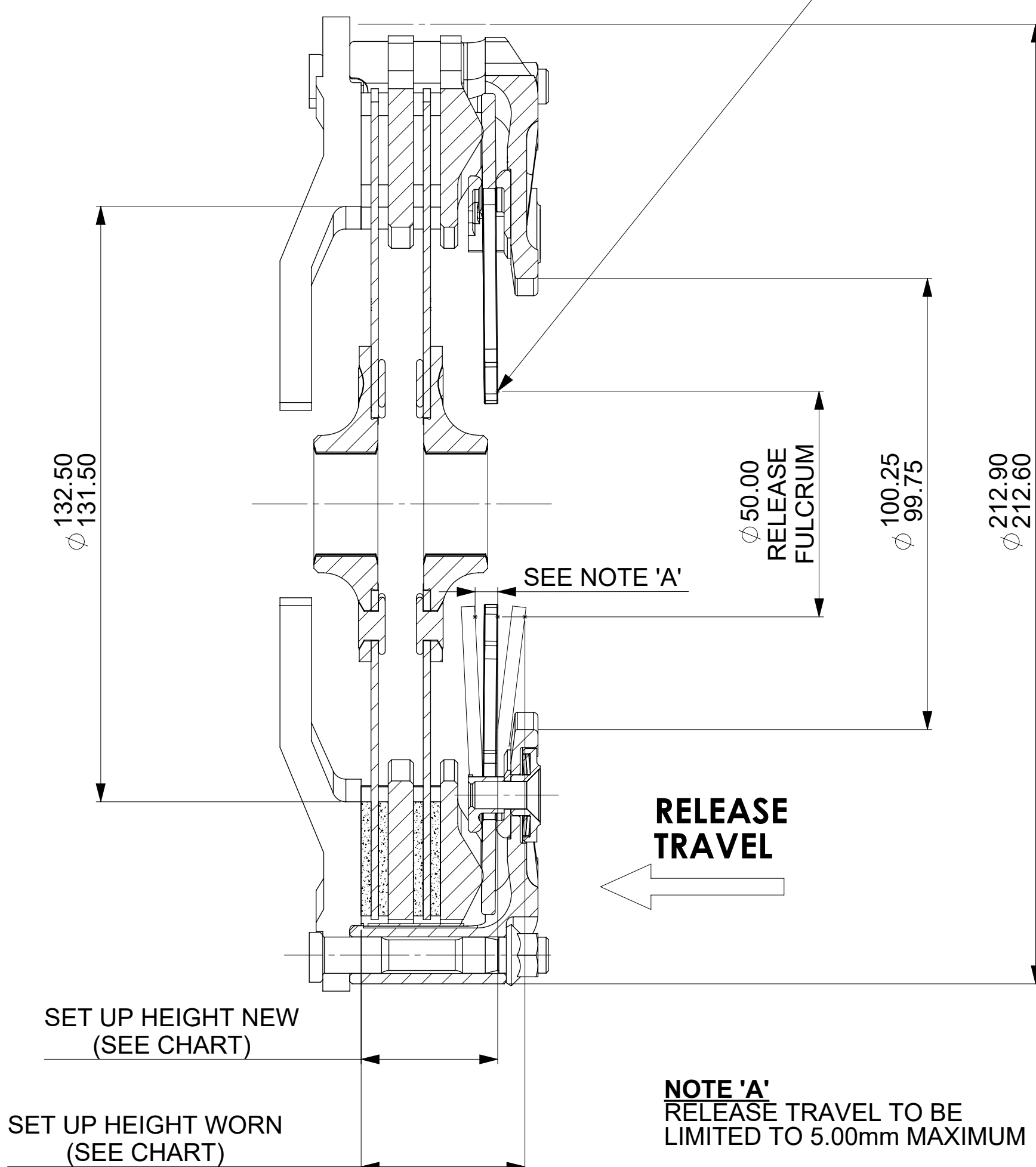
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CP8842 - Ø184.00mm (7,25") CERAMETALLIC TWIN PLATE CLUTCH ASSEMBLY WITH CUSHION COVER



RECOMMENDED RELEASE BEARING:-

STEEL CAGED ROUND NOSED BALL TYPE BEARING TO BE FREE OF SPRING FINGERS WHEN CLUTCH IS FULLY ENGAGED
CP3457-1 STANDARD RELEASE BEARING (OUTER RACE ROTATES)
CP3457-11 HIGH SPEED RELEASE BEARING (INNER RACE ROTATES)



CP8842 CLUTCH FAMILY

MAXIMUM DYNAMIC TORQUE CAPACITY					
(Nm)	708	782	472	553	
(ft.lb)	522	576	348	407	
RELEASE LOAD					
Max. Peak Worn (N)	4150	4450	4150	4450	
At Travel (N)	2950	3750	2950	3750	
WEAR IN (See Note)					
	1.25	1.25	1.50	1.50	
Set Up Height New	32.53	32.53	31.92	31.96	
	28.76	28.76	29.03	29.07	
Set Up Height Worn - MAX	37.84	37.83	36.66	36.71	
(Set Up Height is calculated from the flywheel friction face.)					
Release Ratio	4.13	4.13	3.08	3.08	
Estimated Assembly Mass (No Driven Plates) = 2.681 Kg					
Estimated Assembly Inertia (No Driven Plates) = 0.01713 Kgm ²					
Estimated Driven Plate Inertia - Sheet 3 for details					

PERFORMANCE SUFFIX	OE	CE	OH	CH
For Reference				
Diaphragm Spring Rate	ORA	CRV	ORA	CRV
Clutch Ratio	EHR	EHR	HIR	HIR

MATERIAL SUFFIX	DRIVE PLATE MATERIAL	DRIVE PLATE THICKNESS
81	CERAMETALLIC	6.00mm

FLYWHEEL TYPE		
	SUFFIX	COMMENTS
FLAT FLYWHEEL	FR	FOR INSTALLATION DATA SEE SHEET 2
STEPPED FLYWHEEL	SR	FOR INSTALLATION DATA SEE SHEET 2

Sample AP Racing Part No. **CP8842-CH81-SR**

WEAR IN
THIS CLUTCH HAS BEEN DESIGNED FOR THE WEAR IN INDICATED ABOVE,
DRIVEN PLATE THICKNESS NEW: 6.00mm Nominal
DRIVEN PLATE THICKNESS WORN (for 1.25 wear in (EHR)): 5.37mm Minimum
DRIVEN PLATE THICKNESS WORN (for 1.50 wear in (HIR)): 5.23 mm Minimum
FOR DRIVEN PLATE DETAILS SEE SHEET 3

Issue No.	Alterations		Zone	Initials
	Date & No.	Particulars		
1	02/02/18 C5218	FIRST ISSUE	#	DCB
2	22/02/19 C5206_05	SHEET 3 CP8405-A036H WAS CP7972-A036H CP8401-A008 DRIVE PLATE DELETED PICTORIAL UPDATE TO 6 PADDLE PLATE	B12	BJP
3	17/10/19 C5380_02	PRESSURE PLATES CHANGED FROM CP3592-106 & CP8842-102 TO CP8842-104 AND CP8842-105	#	CGT

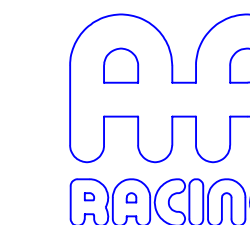
SCALE 1:1	SHEET 1 OF 3
DRAWN	DAVID CONSTABLE-BERRY
APPROVED	
DERIVED FROM	CP8792/CP8812/CP7972
TITLE	
Ø184mm (7,25") SINTERED CUSHIONED COVER CLUTCH	
DRG NO.	CP8842CD

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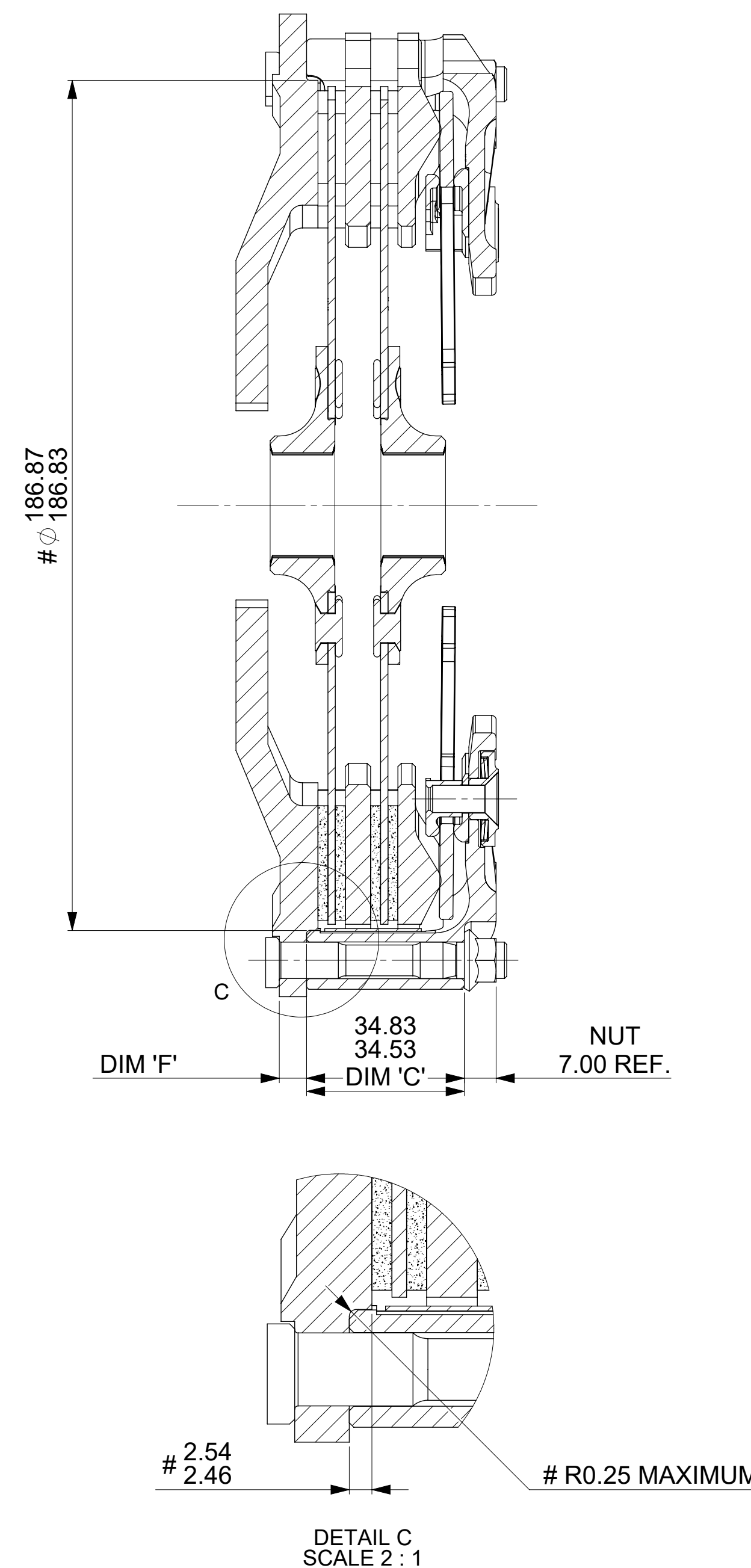
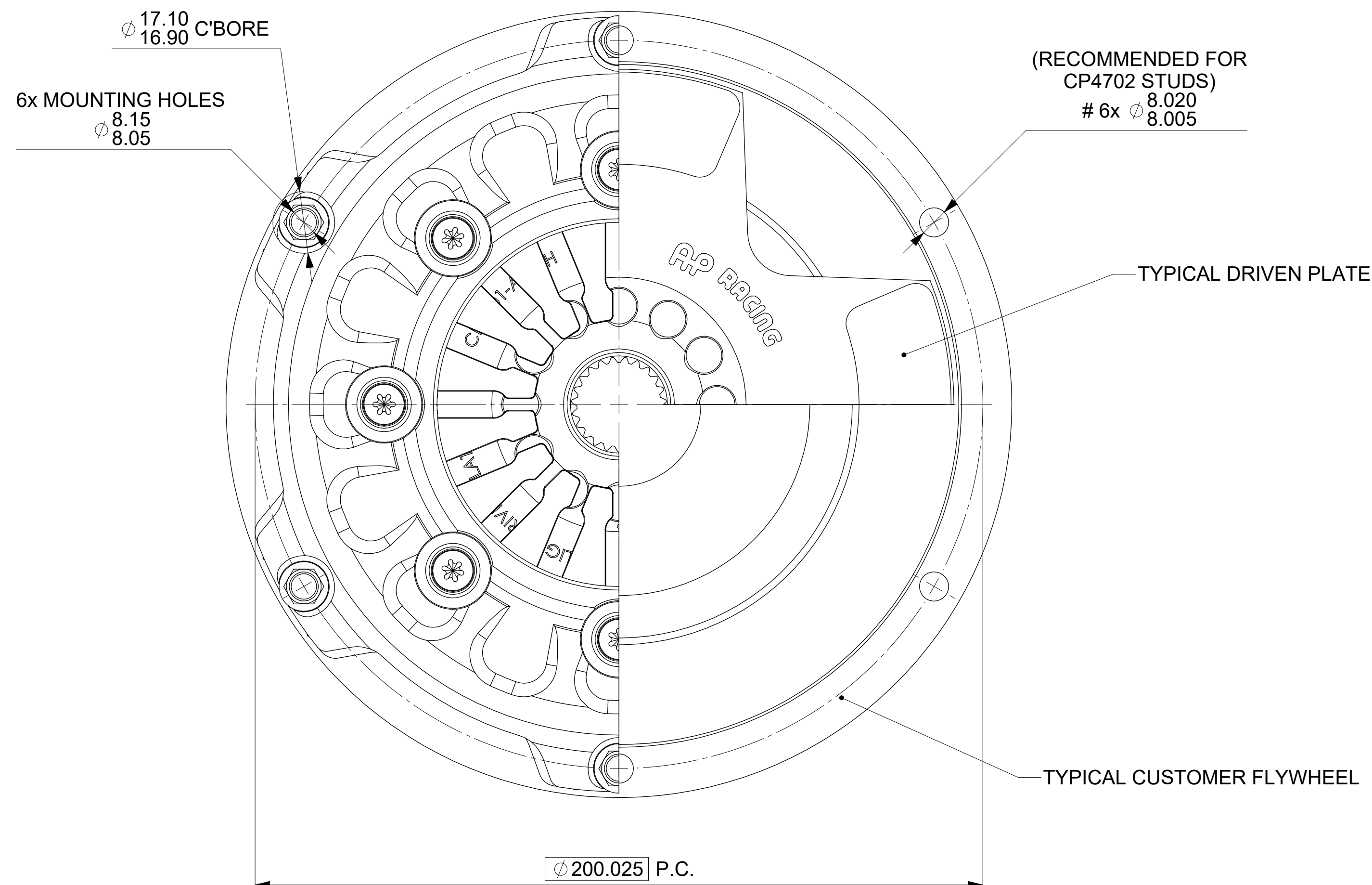


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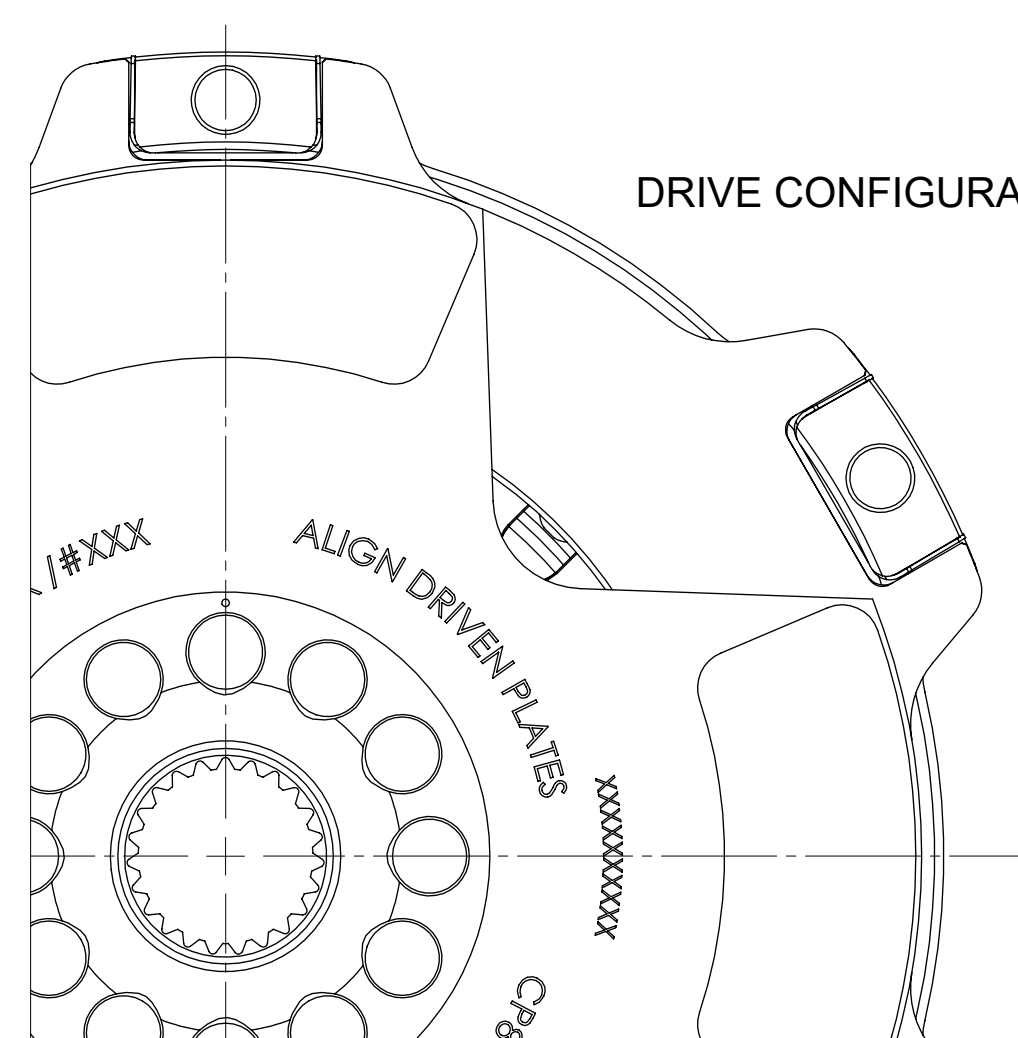
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FLYWHEEL DIMENSIONS # (STEPPED FLYWHEEL SHOWN)



DRIVE CONFIGURATION



RECOMMENDED CLUTCH MOUNTING:

(FOR ALL TYPES OF ASSEMBLY)
 M8x1.25 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, \leq 0.08
 WHEN ASSEMBLED TO CRANKSHAFT

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

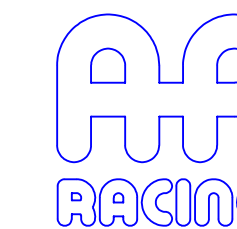
SCALE 1:1	SHEET 2 OF 3
DRAWN	DAVID CONSTABLE-BERRY
APPROVED	
DERIVED FROM	CP8792/CP8812/CP7972
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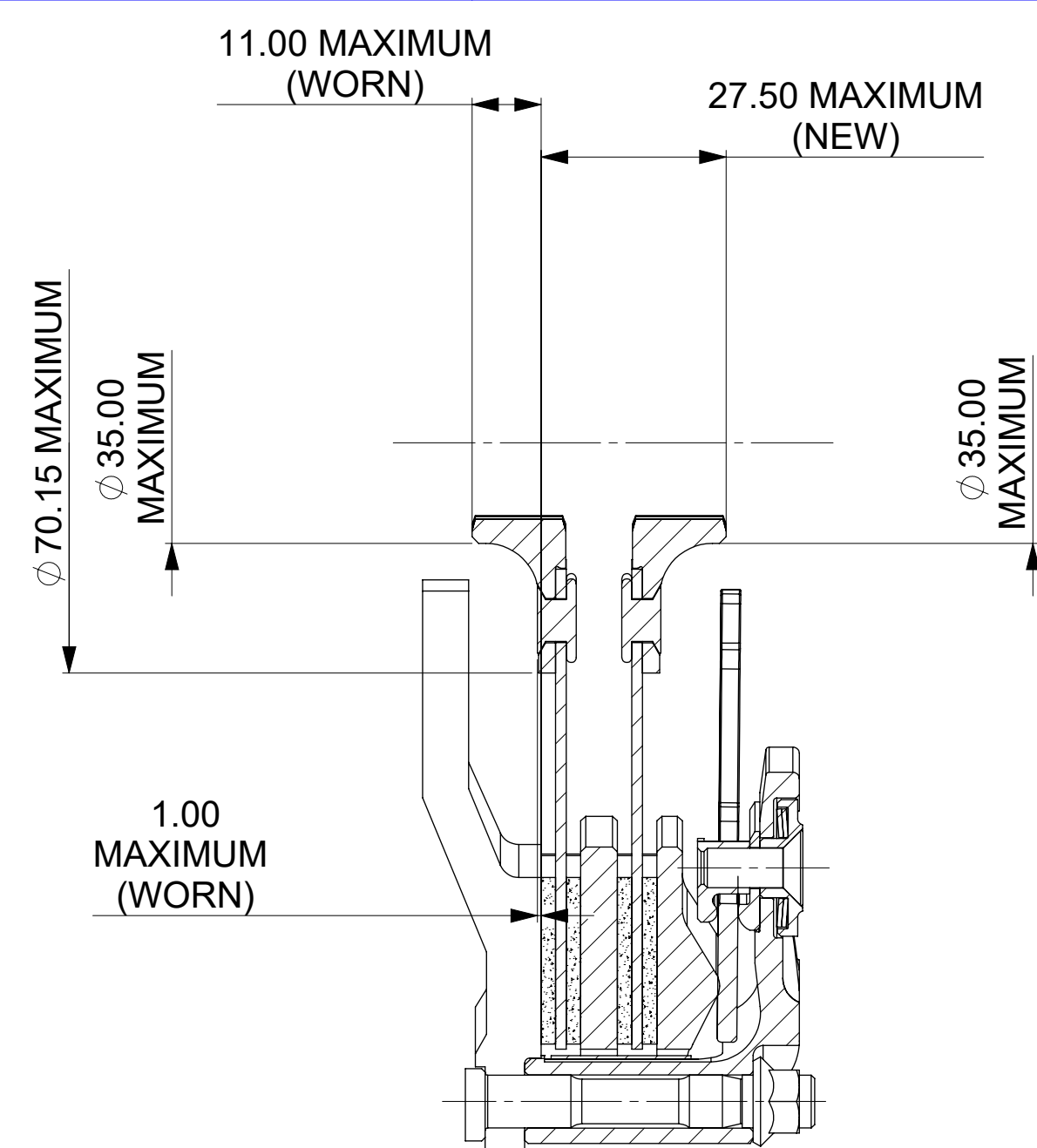


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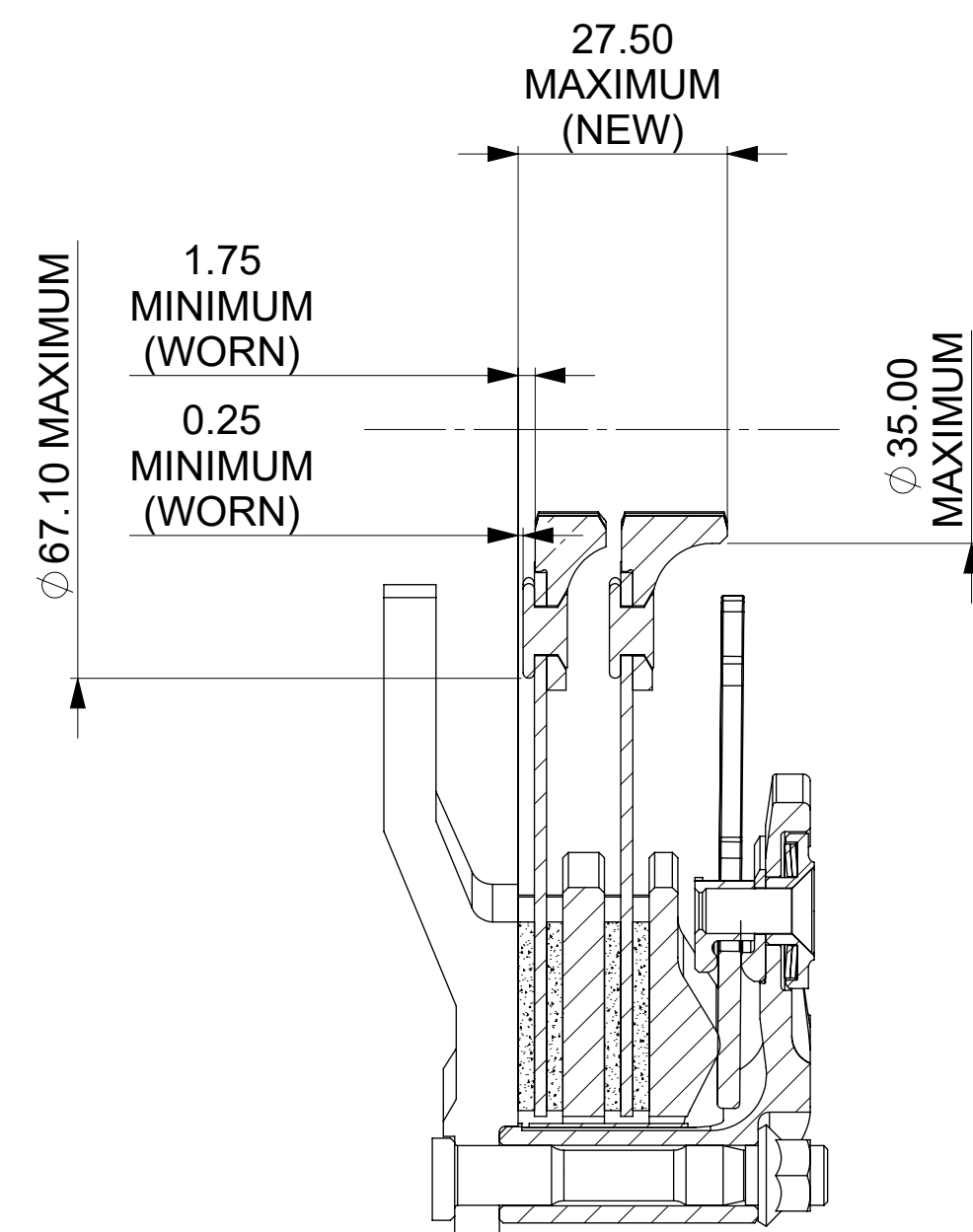
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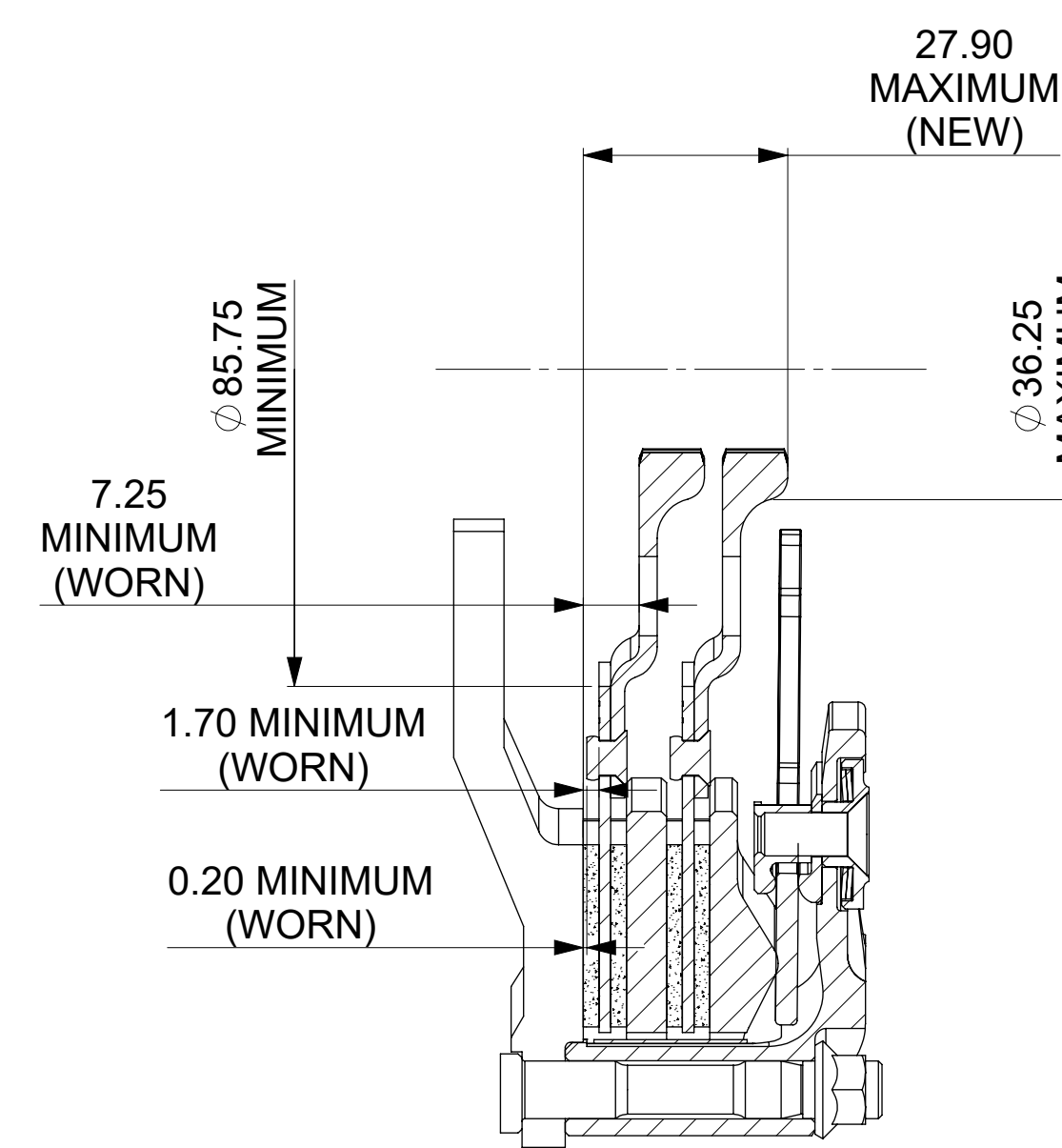
Alterations			
Issue No.	Date & No.	Particulars	Zone
-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-



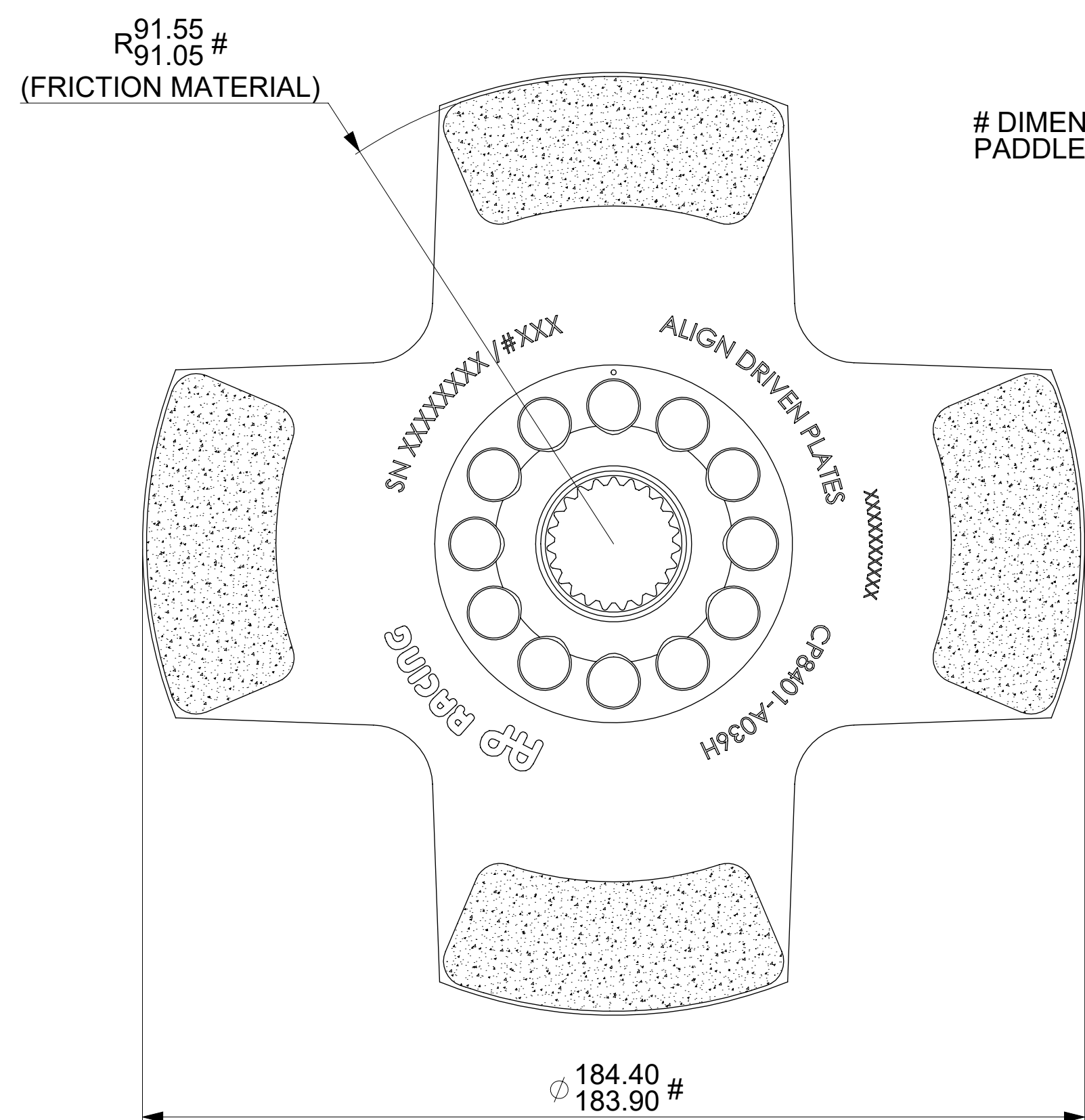
BACK TO BACK DRIVEN PLATES
CALCULATED WEIGHT = 0.98kg
CALCULATED INERTIA = 0.003569kg.m²
VALUES ARE FOR 2 DRIVEN PLATES



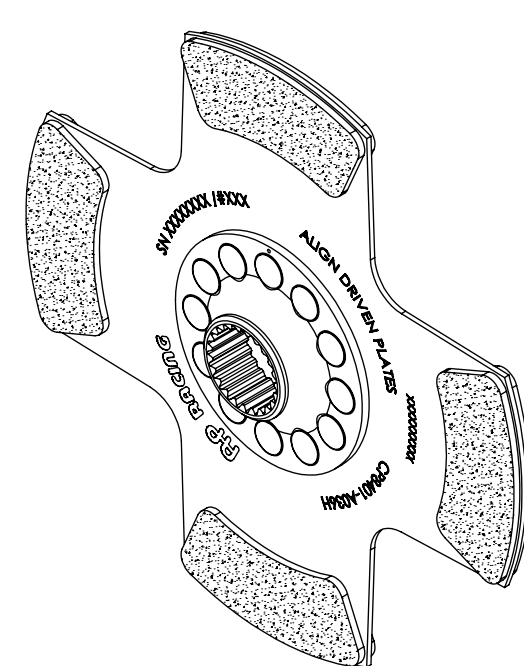
REDUCED OFFSET DRIVEN PLATES
CALCULATED WEIGHT = 0.97kg
CALCULATED INERTIA = 0.003567kg.m²
VALUES ARE FOR 2 DRIVEN PLATES



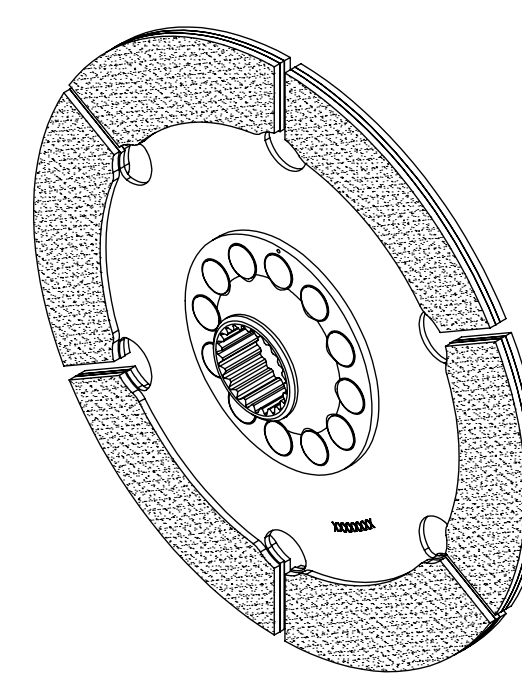
NESTED DRIVEN PLATES
CALCULATED WEIGHT = 1.02kg
CALCULATED INERTIA = 0.003929kg.m²
VALUES ARE FOR 2 DRIVEN PLATES



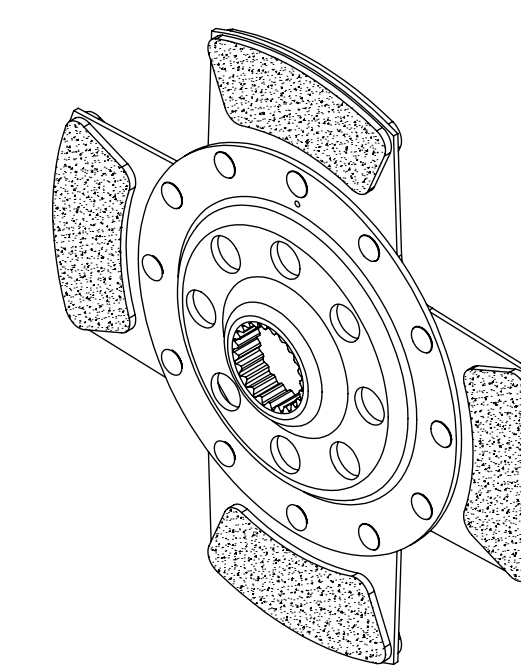
DIMENSION FOR 4 AND 6 PADDLE DRIVEN PLATES



4 PADDLE DRIVEN PLATES (1:2 SCALE)



6 PADDLE DRIVEN PLATES (1:2 SCALE)



NESTED TYPE DRIVEN PLATES (1:2 SCALE)

DRIVEN PLATE DETAILS									
BACK TO BACK TYPE			REDUCED OFFSET TYPE				NESTED TYPE		
PART NUMBER (4 PADDLE)	NUMBER REQUIRED	SPLINE	PART NUMBER		NUMBER REQUIRED	SPLINE	PART NUMBER		NUMBER REQUIRED
CP8401-A036H	2	1.00" x 23T	CP8401-A036H	STANDARD HUB	1	1.00" x 23T	CP8405-A036H		2
			CP8401-G036H	SHORT HUB	1	1.00" x 23T			1.00" x 23T
CP8401-A026H	2	7/8" x 20T	CP8401-A026H	STANDARD HUB	1	7/8" x 20T			
			CP8401-G026H	SHORT HUB	1	7/8" x 20T			
			CP8401-A045H	STANDARD HUB	1	24.2 x 24T			
			CP8401-G045H	SHORT HUB	1	24.2 x 24T			
6 PADDLE							ALTERNATIVE NESTED TYPE		
CP8601-A036H	2	1.00" x 23T	CP8601-A036H	STANDARD HUB	1	1.00" x 23T	CP8172-10FM4	FLYWHEEL SIDE	1
			CP8601-G036H	SHORT HUB	1	1.00" x 23T	CP8172-11FM4	COVER SIDE	1
									1.00" x 23T
									1.00" x 23T

SCALE 1:1 SHEET 3 OF 3

DRAWN DAVID CONSTABLE-BERRY

APPROVED

DERIVED FROM CP8792/CP8812/CP7972

TITLE

Ø184mm (7,25") SINTERED
CUSHIONED COVER CLUTCH

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