

A1 INSTALLATION DRAWING

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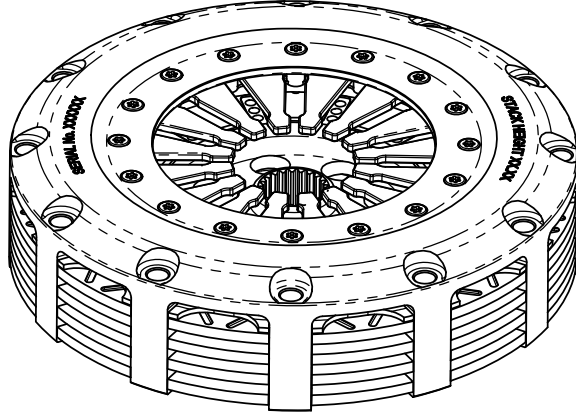


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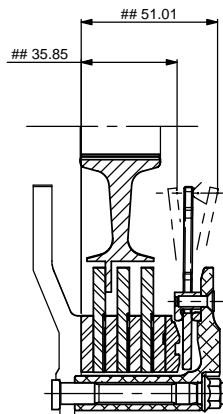
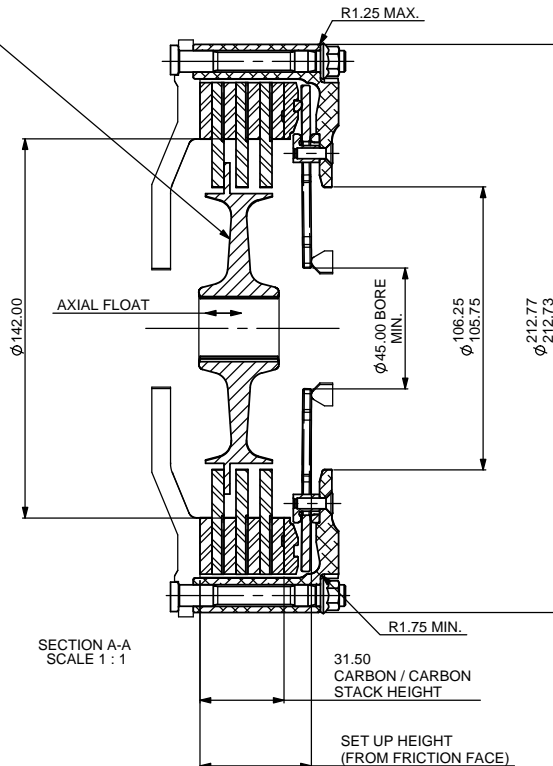
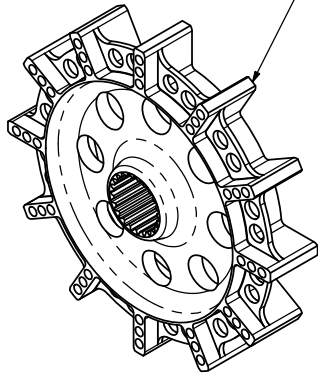
CP8033 Ø184mm (7.25") CARBON / CARBON CLUTCH ASSEMBLY INCLUDING AN OPTIONAL CUSHION PRESSURE PLATE SYSTEM (CPS)



HUB PART No. SPLINE
CP3653-1055 1.00" x 23

HUBS ARE AVAILABLE WITH OTHER SPLINE SIZES. CONTACT AP RACING FOR DETAILS.

FOR HUB ENVELOPE SEE SHEET 2.



RELEASE TRAVEL TO BE LIMITED TO 5.50mm 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. (CALCULATED FROM THE FRICTION FACE.)

THESE FIGURES COVER THE FULL RANGE OF CLUTCHES IN THE CP8033 FAMILY.

CP8033 CLUTCH FAMILY

MAXIMUM DYNAMIC TORQUE CAPACITY

(Nm)	1113	943		
(ft.lb)	820	695		

RELEASE LOAD

Max. Peak Worn (N)	4450	4150		
At Travel (N)	3750	2950		

WEAR IN (See Note)

	1.25	1.25		
--	------	------	--	--

Set Up Height New	42.50	42.25		
Set Up Height Worn	41.01	40.76		
	47.47	46.92		

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

Release Ratio

	3.70	3.70		
--	------	------	--	--

	Aluminium Cover	Steel Cover	Titanium Cover
Assembly Mass	3.39 Kg	4.86 Kg	n/a
Assembly Inertia	0.02021 kg.m ²	0.03207 kg.m ²	n/a
Estimated Driven Plate & STL Hub Inertia = 0.003717 Kgm ²			

PERFORMANCE SUFFIX

CV	OV				
----	----	--	--	--	--

For Reference

Diaphragm Spring Rate	CRV	ORA		
Clutch Ratio	VHR	VHR		

MATERIAL SUFFIX	COVER MATERIAL	PRESSURE PLATE MATERIAL	CARBON / CARBON TYPE
02	ALUMINIUM	STEEL	HEAVY DUTY (S3)
03	STEEL	STEEL	HEAVY DUTY (S3)
28	ALUMINIUM	STEEL	HEAVY DUTY (S9)

FLYWHEEL TYPE

	SUFFIX	COMMENTS
FLAT FLYWHEEL	FN	N/A
STEPPED FLYWHEEL	SN	FOR INSTALLATION DATA SEE SHEET 2
FLAT FLYWHEEL WITH CPS	FP	N/A
STEPPED FLYWHEEL WITH CPS	SP	FOR INSTALLATION DATA SEE SHEET 2

Sample AP Racing Part No. **CP8033-CV02-SP**

WEAR IN

THIS CLUTCH HAS BEEN DESIGNED FOR THE WEAR IN INDICATED ABOVE, WHICH MUST BE COMPENSATED FOR BY USING PRESSURE PLATE "SHIMS" FROM THE KITS DETAILED BELOW. THE MAXIMUM CARBON STACK WEAR FOR THIS ASSEMBLY IS 6.00mm

	CV & OV		
STANDARD KIT 0.50 - 4.50 IN 0.50 STEPS	CP8033-6		
INTERMEDIATE KIT 0.25 - 4.75 IN 0.50 STEPS	CP8033-7		

ISSUE No.	Alterations		Zone	Initials
	Date & No.	Particulars		
8	26/10/09 C3668	REDRAWN INTO THE LATEST FORMAT INSTALLATION DRAWING STYLE.	#	JG
9	15/05/10 C3668	CV:42.50/41.01 was 45.27/43.57	#	JG
10	20/02/13 C4441	STEEL COVER DETAILS ADDED TO DATA TABLE	#	JG
11	04/12/13 C4620	S9 CARBON OPTION ADDED TO THE DATA TABLE.	#	JG
12	20/08/14 C4764	"OV" SPECIFICATION ADDED	#	JG

SCALE 1:1	SHEET 1 OF 3
DRAWN	Jeremy Govan
APPROVED	
DERIVED FROM	
TITLE	
Ø184mm CARBON / CARBON CLUTCH ASSEMBLY	
DRG NO.	CP8033CD

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(RECOMMENDED FOR CP4702 STUDS)

8 STUD MOUNTING HOLES

Ø8.020/8.005

EQUI-SPACED ON A

Ø200.025 P.C.

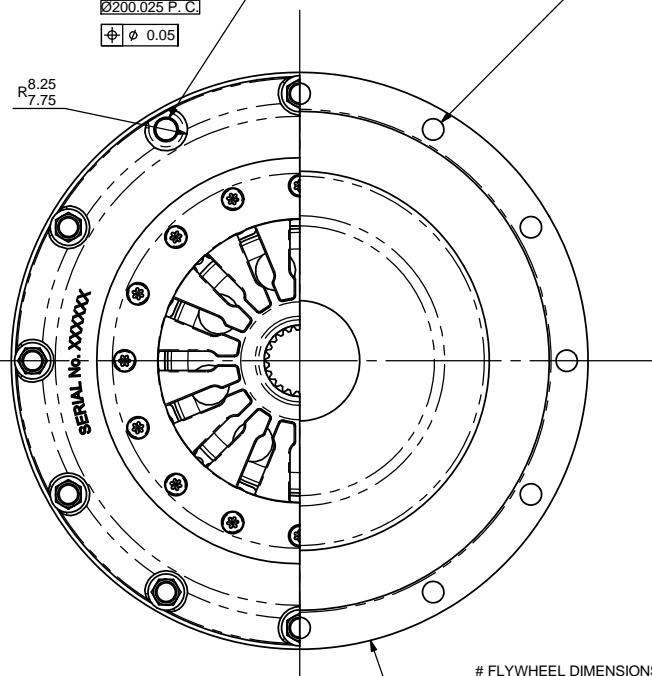
12 MOUNTING HOLES Ø8.15/8.05

EQUI-SPACED AS SHOWN

Ø200.025 P.C.

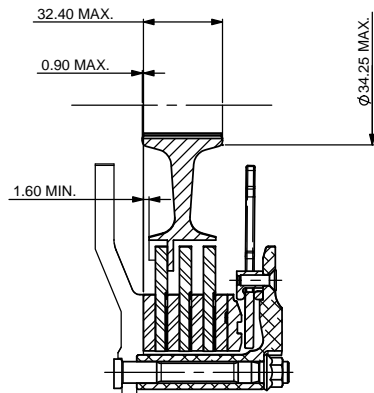
± 0.05

R8.25
7.75



FLYWHEEL DIMENSIONS

CUSTOMER FLYWHEEL



HUB ENVELOPE
(FROM FLYWHEEL FRICTION FACE)

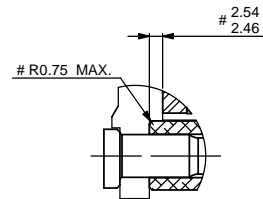
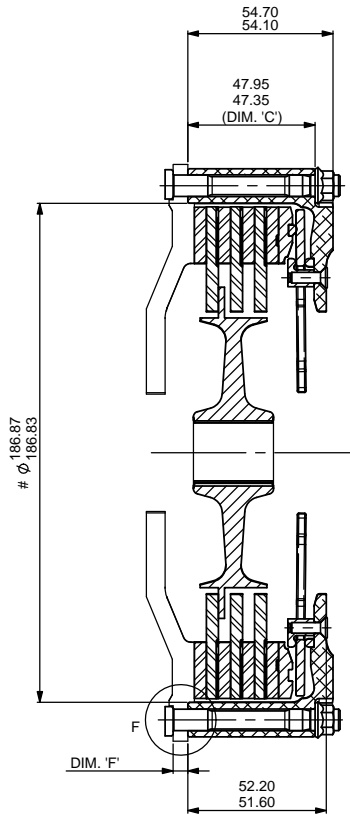
RECOMMENDED CLUTCH MOUNTING :
(FOR ALL TYPES OF ASSEMBLY)
M8 x 1.0, CP4702 FAMILY STUD AND
K-LOCK NUT.
TIGHTENING TORQUE : 19Nm (14 ft.lb)

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.

STEPPED FLYWHEEL - SUFFIX SN AND SP



DETAIL F
SCALE 2 : 1

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SCALE 1:1	SHEET 2 OF 3
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APPROVED	
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DRG NO.	CP8033CD

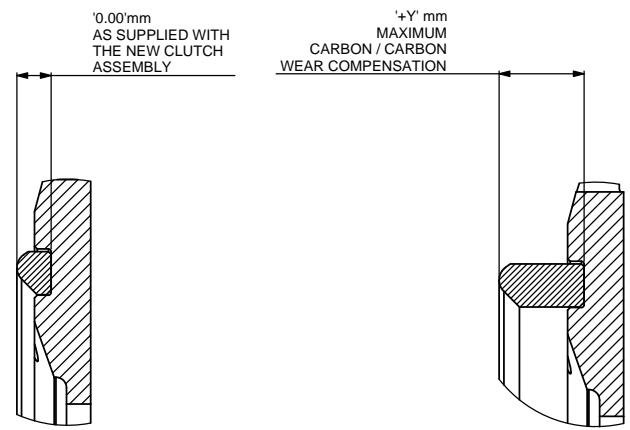
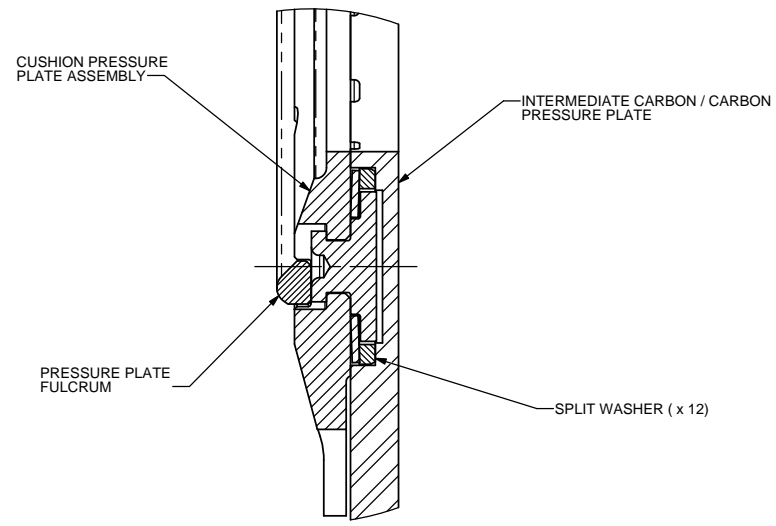
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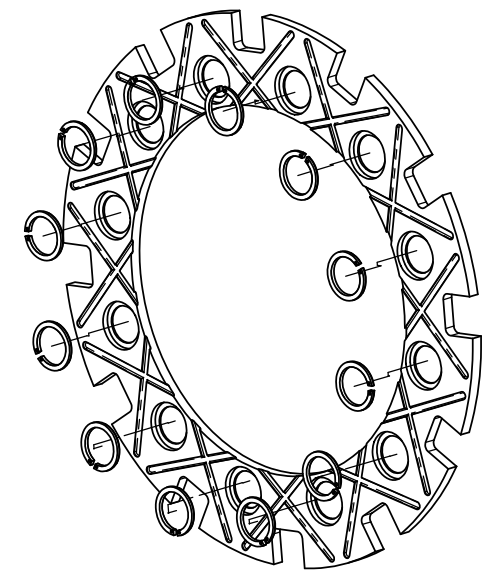
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WEAR COMPENSATION IS ACHIEVED BY REPLACING THE PRESSURE PLATE FULCRUM RING AS SHOWN ABOVE. SEE SHEET ONE FOR KIT PART NUMBERS AND INCREMENT DETAILS.

FITTING OF SPLIT WASHERS

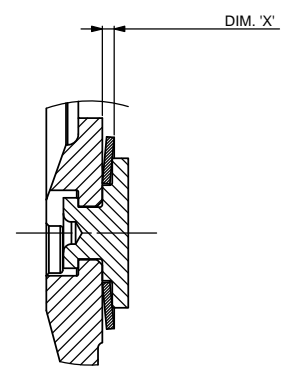
COMPRESS THE SPLIT WASHER USING PLIERS AND FIT INTO THE LARGER OF THE RECESSED COUNTER BORES IN THE CARBON / CARBON INTERMEDIATE PRESSURE PLATE, CHAMFER FIRST ENSURE THE SPLIT WASHER ARE FLUSH WITH THE BOTTOM OF THE POCKET



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DRG NO.	CP8033CD

CUSHIONING REPLACEMENT CRITERIA



WITH TIME AND USE THE CUSHIONING EFFECT WILL DETERIORATE AND COMPONENTS SHOULD BE SERVICED WITH THE ABOVE KIT WHEN EITHER THE BELLEVILLES BECOME LOOSE OR WHEN DIMENSION 'X' FALLS BELOW 1.00, TAKEN AS THE AVERAGE OF 4 EQUALLY SPACED MEASUREMENTS AROUND THE CIRCUMFERENCE OF THE BELLEVILLE.