A1 INSTALLATION DRAWING

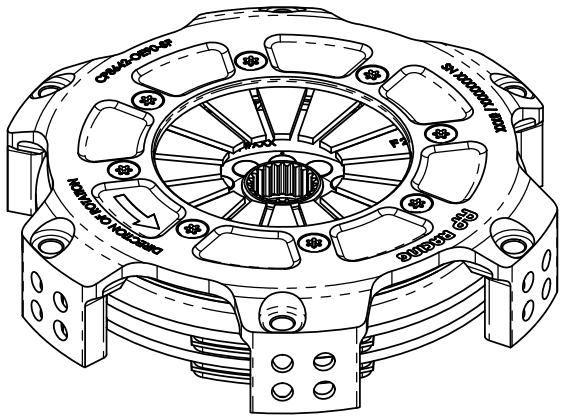
IF THIS DOCUMENT IS PRINTED IN HARDCOPY, IT IS FOR INFORMATION USE ONLY AND THEREFORE IS NOT SUBJECT TO UPDATING CONTROLS. ALWAYS REFER TO SOLIDWORKS VIEWER FOR LATEST ISSUE

FIRST ANGLE PROJECTION

AP Racing
Wheler Road
Coventry
CV3 4LB
Tel: +44 (0) 24 7663 9595
Fax: +44 (0) 24 7663 9559
e-mail: engineering@apracing.co.uk
Web site: http://www.apracing.com

Issue No.	Alterations Date & No.	Particulars	Zone	Initials
1	03/07/13 C4529	FIRST ISSUE	#	JG

CP8642 - Ø184mm (7,25") TWIN PLATE CERAMETALLIC 'I-DRIVE' CLUTCH ASSEMBLY

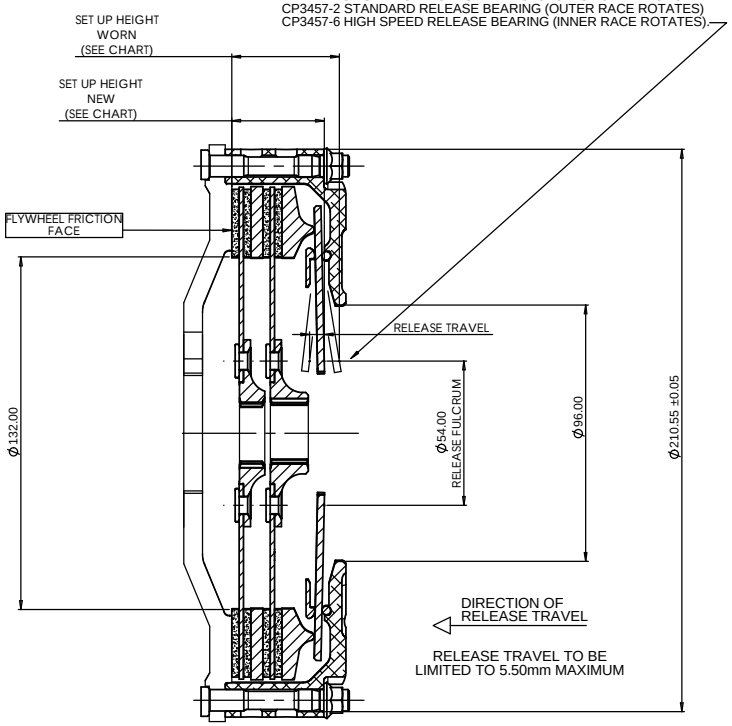


CP8642 CLUTCH FAMILY

MAXIMUM DYNAMIC TORQUE CAPACITY						
(Nm)	842	528		636	421	
(ft.lb)	620	389		469	310	
RELEASE LOAD						
Max. Peak New (N)	3500	2400		3500	2400	
Max. Peak Worn (N)	4400	3300		4400	3300	
WEAR IN (See Note)	0.75	0.75		0.75	0.75	
Set Up Height New	35.99 33.08	35.80 32.89		35.63 33.17	35.44 32.98	
Set Up Height Worn - MAX	39.20	38.71		38.32	38.13	
(Set Up Height is caluclated from the flywheel friction face.)						
Release Ratio	3.95	3.95		3.31	3.31	
Estimated Assembly Mass (Less Driven Plates) = 2.38 Kg						
Estimated Assembly Inertia (Less Driven Plates) = 0.01479 Kgm²						

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).



PERFORMANCE SUFFIX	CE	OE		CH	OH	
For Reference						
Diaphragm Spring Rate	CRV	ORA		CRV	ORA	
Clutch Ratio	EHR	EHR		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. **CP8642-CE80-SF**

WEAR IN
THIS CLUTCH HAS BEEN DESIGNED FOR THE WEAR IN INDICATED ABOVE,
DRIVEN PLATE THICKNESS NEW: 7.08mm Nominal
DRIVEN PLATE THICKNESS WORN : 6.67mm Minimum Worn
FOR DRIVEN PLATE DETAILS SEE SHEET 2

SCALE 1:1	SHEET 1 OF 2
DRAWN	Jeremy Govan
APPROVED	
DERIVED FROM	

TITLE
Ø184mm (7,25") 2 PLATE CLUTCH INSTALLATION

DRG NO. CP8642CD

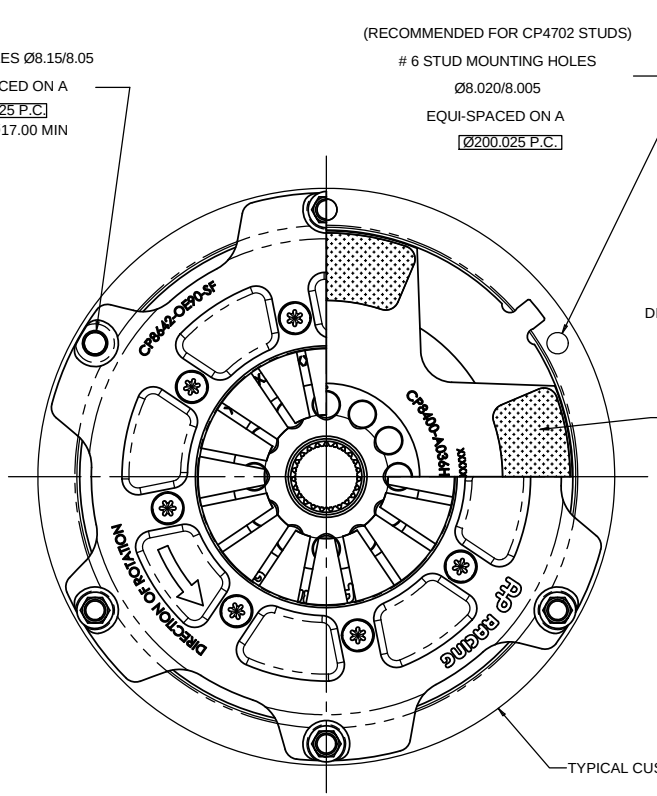
A1 INSTALLATION DRAWING

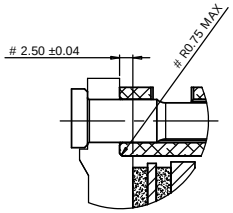
IF THIS DOCUMENT IS PRINTED IN HARDCOPY, IT IS FOR INFORMATION USE ONLY AND THEREFORE IS NOT SUBJECT TO UPDATING CONTROLS. ALWAYS REFER TO SOLIDWORKS VIEWER FOR LATEST ISSUE

FIRST ANGLE PROJECTION

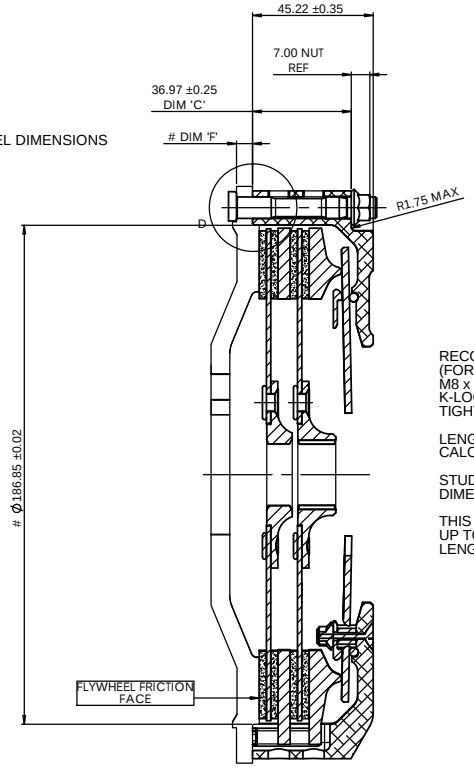
AP Racing
Wheler Road
Coventry
CV3 4LB
Tel: +44 (0) 24 7663 9595
Fax: +44 (0) 24 7663 9559
e-mail: engineering@apracing.co.uk
Web site: http://www.apracing.com

Issue No.	Alterations: Date & No.	Particulars	Zone	Initials
1	03/07/13 C4529	FIRST ISSUE	#	JG





DETAIL D
SCALE 2 : 1



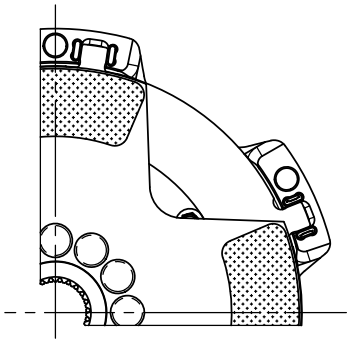
RECOMMENDED CLUTCH MOUNTING :
(FOR ALL TYPES OF ASSEMBLY)
M8 x 1.0, CP4702 FAMILY STUD AND K-LOCK NUT.
TIGHTENING TORQUE : 22Nm (16 ft.lb)

LENGTH OF STUD REQUIRED TO BE CALCULATED THUS :

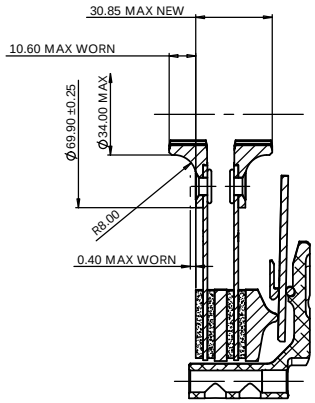
STUD LENGTH =
DIMENSIONS 'C' + 'F' + NUT

THIS CALCULATED LENGTH TO BE ROUNDED UP TO THE NEXT AVAILABLE STANDARD STUD LENGTH.

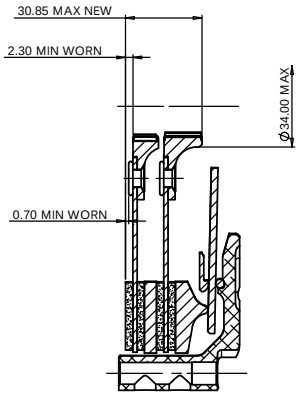
DRIVEN PLATE DETAILS



CLUTCH DRIVE CONFIGURATION



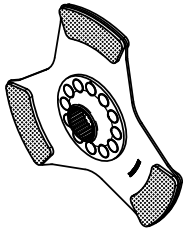
BACK TO BACK TYPE



REDUCED OFFSET TYPE

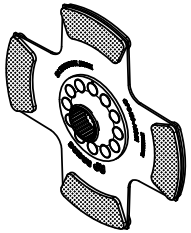
DRIVEN PLATE HUB ENVELOPE

3 PADDLE DRIVEN PLATES (1:2 SCALE)



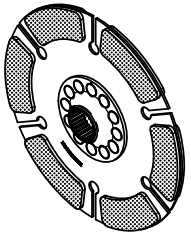
TYPICAL WEIGHT = 0.91Kg
TYPICAL INERTIA = 0.00312Kg.m²
(FOR 2 DRIVEN PLATES)

4 PADDLE DRIVEN PLATES (1:2 SCALE)



TYPICAL WEIGHT = 1.05Kg
TYPICAL INERTIA = 0.00397Kg.m²
(FOR 2 DRIVEN PLATES)

6 PADDLE DRIVEN PLATES (1:2 SCALE)



TYPICAL WEIGHT = 1.34Kg
TYPICAL INERTIA =0.00581 Kg.m²
(FOR 2 DRIVEN PLATES)

DRIVEN PLATE DETAILS						
BACK TO BACK TYPE			REDUCED OFFSET TYPE			
PART NUMBER (4 PADDLE)	NUMBER REQUIRED	SPLINE	PART NUMBER		NUMBER REQUIRED	SPLINE
CP8400-A036H	2	1.00" x 23T	CP8400-A036H	STANDARD HUB	1	1.00" x 23T
			CP8400-G036H	SHORT HUB	1	1.00" x 23T
CP8400-A026H	2	7/8" x 20T	CP8400-A026H	STANDARD HUB	1	7/8" x 20T
			CP8400-G026H	SHORT HUB	1	7/8" x 20T
CP8400-A008H	2	29 x 10T				
6 PADDLE						
CP8600-A036H	2	1.00" x 23T	CP8600-A036H	STANDARD HUB	1	1.00" x 23T
			CP8600-G036H	SHORT HUB	1	1.00" x 23T

SCALE 1:1 | SHEET 2 OF 2

DRAWN: Jeremy Govan
APPROVED:
DERIVED FROM:

TITLE
Ø184mm (7,25") 2 PLATE CLUTCH INSTALLATION

DRG NO. CP8642CD