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Part Number Legend

<u>Prefix Number</u>	<u>Description</u>
40	Release Bearing
41	Concentric Slave Cylinder/Release Bearing
43	Release Bearing for 184mm acing Clutch (on standard carrier)
44	Release bearing for 200mm & 215mm Racing Clutch (on standard carrier)
46	215mm Geared Hub Drive Plates
47	200mm Geared Hub Drive Plates
48	184mm Geared Hub Drive Plates
49	184mm 6 Paddle Cerametallic Drive Plate
51	184mm 3 Paddle Cerametallic Drive Plate
52	184mm 4 Paddle Cerametallic Drive Plate
53	184mm Sintered Drive Plate (Outer)
54	184mm Sintered Drive Plate (Inner)
55	184mm Organic Drive Plate Rigid
56-1	184mm 3 Paddle Cerametallic Drive Plate
56-2	184mm 4 Paddle Cerametallic Drive Plate
57	184mm Organic Drive Plate (sprung hub)
63	184mm Lug Drive Cover Assembly
68	200mm Lug Drive Cover Assembly
69	215mm Lug Drive Cover Assembly
70-1	200mm Organic Drive Plate (sprung hub)
70-2	215mm Organic Drive Plate (sprung hub)
71	215mm Organic Drive Plate (rigid hub)
71-1	200mm Organic Drive Plate (rigid hub)



Part Number Legend

<u>Prefix Number</u>	<u>Description</u>	
71-2	215mm Organic Drive Plate (rigid hub)	
71-3	215mm Organic Drive Plate (rigid hub)	
77-1	200mm 4 Paddle Cerametallic Drive Plate	(sprung hub)
77-11	200mm 6 Paddle Cerametallic Drive Plate	(sprung hub)
77-2	215mm 4 Paddle Cerametallic Drive Plate	(sprung hub)
77-21	215mm 6 Paddle Cerametallic Drive Plate	(sprung hub)
78-1	200mm 4 Paddle Cerametallic Drive Plate	(rigid hub)
78-11	200mm 4 Paddle Cerametallic Drive Plate	(rigid hub)
78-2	215mm 4 Paddle Cerametallic Drive Plate	(rigid hub)
78-3	215mm 4 Paddle Cerametallic Drive Plate	(rigid hub)
78-21	215mm 6 Paddle Cerametallic Drive Plate	(rigid hub)
78-31	215mm 6 Paddle Cerametallic Drive Plate	(rigid hub)



The HELIX Racing Clutch Range

The range has been designed to satisfy the needs in the competition market, with a variety of customisation available for all sections of the market.

The racing clutch covers are a one piece aluminium design, this benefits from improved heat dissipation compared with more traditional steel covers. The covers also benefit from a comparatively lower moment of inertia when compared more traditional designs.

The following drive plate configurations are available:-

Sintered Rigid Hub

Cerametallic rigid Hub (Paddle Clutch) Cerametallic Sprung Hub (Paddle Clutch)

Organic Rigid Hub Organic Sprung Hub

The customer defined configuration is dependent on application and engine torque output. This will determine the clutch diameter and number of plates required. The information offered here will aid in making the decision, but if required technical information is available from Helix.

Cerametallic & Organic clutches are available in 1 & 2 plate versions diameter 184, 200 & 215mm

Sintered clutches are available in 1, 2, 3, & 4 plate versions, however these only come in 184mm diameter variants.

Drive Plate Material Explained.

Organic

- Better Suited to road applications
- Can be used for light competition
- Offers the softest engagement
- Least prone to judder
- Lightweight low moment of inertia
- Compact installation
- Available in both rigid and sprung hub formats

Sintered

- Used primarily in race applications.
- Compact dimensions
- Lightweight Low moment of inertia
- Well suited for Rallying application's

Cerametallic

- Primarily used for rally applications
- Also used for race applications especially with a diameter over 184mm.
- Can be used for road use where engine torque requires it
- Greater resistance to high energy input
- Smoother engagement than sintered material plates
- Less prone to judder than sintered material plates
- Available in both rigid and sprung centre formats



Clutch Terminology

Cover Assembly – Push Type

This is the most common type of clutch cover assembly where in operation the release bearing pushes the diaphragm spring inwards towards the flywheel in order to release the clutch.

Cover Assembly - Pull type

With the pull type the release bearing is attached to the diaphragm spring and pulls the spring away from the flywheel towards the gearbox to release the clutch.

This type has a lower release load due to its longer lever ratio and given that the diaphragm spring is not being pushed over centre. The design is more efficient and gives a higher clamp load to release load ratio than a push type clutch.

Diaphragm Spring

A Belleville disc spring with a series of fingers pointed inwards. The inside of the Belleville is where the release bearing to operates the spring. This is available in different thicknesses / load deflection curves for different torque capacities.

Clamp Load

The pressure / force applied by the diaphragm spring onto the drive plate via the pressure plate and intermediate plate (drive plates). The force applied being determinate on the strength of the spring and the fulcrum ratio of the pressure plate

Release Load

The force required by the release bearing operating on the diaphragm spring to disengage the clutch

Pressure Plate

This is the metal disc with a raised fulcrum point for the transmission of the clamp load to the drive plate from the diaphragm spring.

Interplate

An intermediate pressure plate which is positioned between the drive plates in a multi plate clutch system. A typical two drive plate setup would have one pressure plate and one Interplate where as a three drive plate system would feature one pressure plate and two interplates.

Moment of Inertia

The rotating mass around the centre axis of the clutch, the smaller diameter the lower the moment of inertia, which will give a faster response in engine pick up and gear changes.

Set up Height (S.U.H.)

The dimension from the contact point of the release bearing on the diaphragm spring to the friction face of the flywheel (Cover SUH). For a whole kit setup height, the measurement is taken from the crank shaft mounting face.



Clutch Fitting & Flywheels

The racing clutches are fitted to the flywheel by either :-

The preferred / recommended method

High quality bolts / mounting studs passing through from the rear of the flywheel.

These need to be a close tolerance push fit through the flywheel with a locating spigot machined on the rear of the flywheel to prevent rotation of the bolts / mounting studs.

These are retained by K-lock nuts. Recommended torque settings 22Nm [16lbft] See relevant clutch diameter section for dimensions and torque figures.

Or by :-

High quality socket head cap screws (min tensile 10.9) diameter 8mm or 5/16"located through the cover assembly and screwed directly into the flywheel.

In using this method it is important that a counter bore is used to ensure the shear load Through the screw is across the full shank diameter and NOT the thread.

Recommended torque settings 22Nm [16lbft]

See relevant clutch diameter section for dimensions and torque figures

Flywheels

These clutches can be fitted to existing cast iron O.E. flywheels but these should not be used above 8000rpm. It is not advisable to modify dual mass flywheels except where there is no other option and in which case these should not be used above 6500 rpm.

It is recommended that a high quality purpose made steel flywheel be used material to be of 0.35 / 0.45 carbon with a minimum hardness of 200Hb minimum

The run out of this flywheel when fitted to the crankshaft must not exceed 0.08mm at 76mm radius. See relevant clutch diameter section for dimensions and torque figures

Maintenance

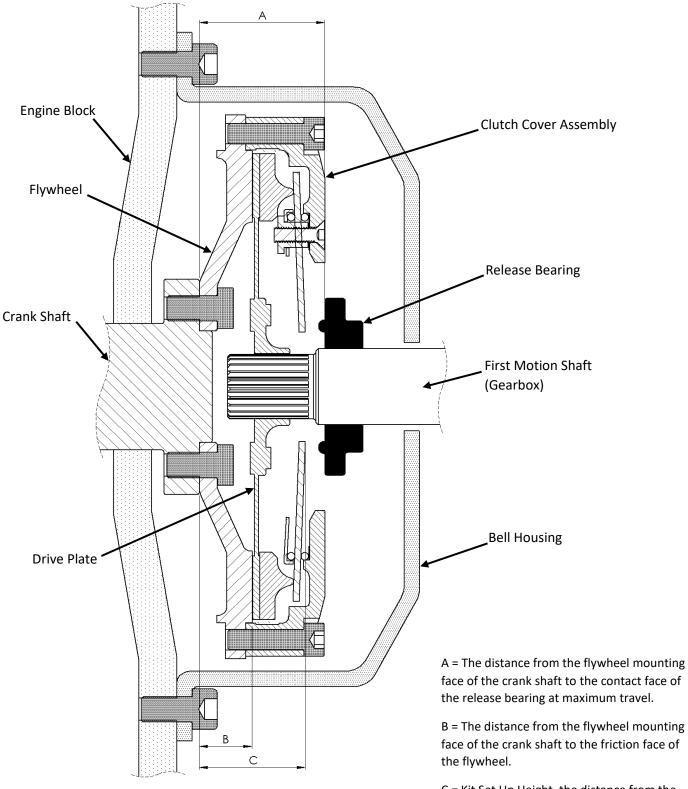
It is advised that regular inspection and maintenance is carried out to ensure the clutch operates to its optimum performance.

Pressure plates should be checked for coning and replaced when more than 0.15mm out of flat, otherwise the clutch can drag interfering with clutch release.

Driven plates should be replaced if showing signs of damage or if the minimum thickness has been reached (see the relevant clutch diameter section for details)



Clutch Installation Drawing



When fitting a non-standard clutch & flywheel as a replacement for the original certain parameters must be measured. As shown above A, B & C are taken to ensure the replacement kit operates correctly.

C = Kit Set Up Height, the distance from the flywheel mounting face on the crank shaft to the contact point of the release bearing on the diaphragm spring.



Release Bearings

The release bearings should be a high quality steel caged radius contact ball bearing with a fulcrum diameter of :-

 $48 \rightarrow 52$ mm for a clutch of Ø 140mm

 $48 \rightarrow 54$ mm for a clutch of Ø 184mm

52 \rightarrow 54mm for a clutch of Ø 200mm & 215mm

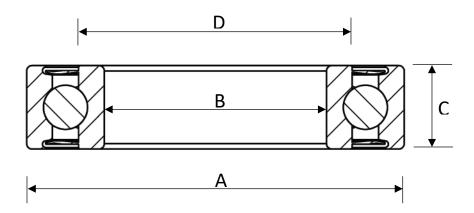
On fitting the release bearing it should be arranged so that the bearing is not in contact with the diaphragm spring fingers when the clutch is fully engaged. Constant contact will result in excessive wear on both the diaphragm spring fingers and the release bearing.

It is also IMPORTANT that the travel of the bearing when operated is to a controlled distance otherwise damage to the diaphragm spring can occur, this travel can be limited by means of an external stop. See relevant clutch part # for dimension.

HSHP = High Speed / High Performance

Bearings available

Part No	Dimension Ø A	Dimension Ø B	Dimension C	Dimension Ø D
40-1252	74.00mm	45.00mm	18.00mm	54mm
40-2429	67.00mm	40.00mm	19.70mm	52mm
40-3000	65.00mm	35.00mm	18.50mm	48mm HSHF
40-3001	70.50mm	40.00mm	19.00mm	54mm HSHF
40-3264	68.50mm	38.00mm	19.00mm	52mm
40-4941	63.00mm	40.00mm	14.00mm	51mm



Clutches fitted with an O.E. concentric slave cylinder operating system will require this being replaced with a more robust system and not just a release bearing.

For the fitment of 184mm clutches to BMW vehicles special bearings are available :-

40-3002 for gearboxes with a 28mm x 10teeth spline

40-3003 for gearboxes with a 28mm x 22teeth spline

40-3004 for gearboxes with a 35mm x 10teeth spline

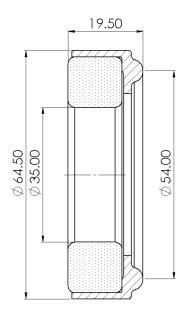


Race Series Release Bearings

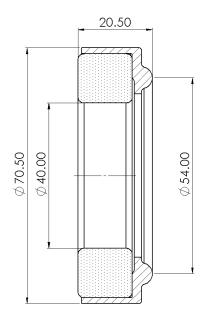
Helix Autosport offer a range of release bearings to accompany the race cover series. These are manufactured to withstand the demanding conditions a competition clutch is exposed to.

All release bearings feature a curved contact face to be used with our flat diaphragm spring covers.

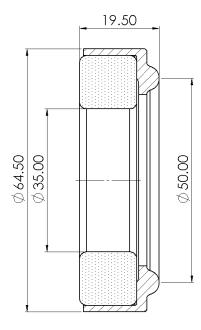
40-3000



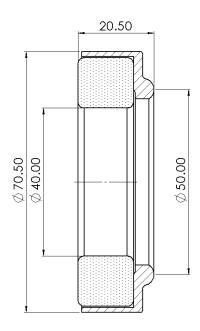
40-3001



40-3000A



40-3001A





Concentric Slave Cylinder Release Bearings

Clutches fitted with an O.E. concentric slave cylinder (CSC) operating system will ideally require being replaced with a more robust system and not just a release bearing.

If the CSC has a flat contact face we offer a range of curly tipped diaphragm spring clutch covers. These are identified by a 'c' at the end of the part number e.g. 62-220c.

Cover assemblies with curly tipped springs (with suffix c)

Ø184mm Racing Clutch

63-110Bc, 63-110Rc, 63-110Gc, 63-110Yc 63-120Bc, 63-120Rc, 63-120Gc, 63-120Yc 63-130Bc, 63-130Rc, 63-130Gc, 63-130Yc

63-210Bc, 63-210Rc, 63-210Gc, 63-210Yc 63-220Bc, 63-220Rc, 63-220Gc, 63-220Yc

Ø200mm Racing Clutch

68-110Rc, 68-110Yc 68-120Rc, 68-120Yc

Ø215mm Racing Clutch

69-110Gc, 69-110Yc 69-120Gc, 69-120Yc

All 'C' suffix model covers are the same configuration and performance as non-C suffix models.

Please Note: Setup heights of C suffix models are increased by around 3mm.



Clutch to Flywheel Mounting Bolt Kits

Helix Autosport can supply mounting bolts to attach the range of racing clutches to the flywheel.

These bolts are rated at 10.9 tensile strength with a 5/16" UNF thread. All kits are packed in multiples of 6 bolts with the matching locking 'K' nuts.

Single items or multiples thereof can be supplied.



Bolt Dimensions

Part No.	Length A (mm)	Length B (mm)	Length C (mm)
184-1A7	43.50	28.00	11.00
184-1A8	45.00	29.50	11.00
184-1A9	46.50	31.00	11.00
184-1A10	48.50	32.50	11.00
184-1A11	49.50	34.00	11.00
184-1B8	51.00	35.50	11.00
184-1B9	53.00	38.00	10.50
184-1B10	54.00	39.00	11.00
184-1B11	55.50	41.00	10.50
184-1B12	57.00	42.00	11.00
184-1C7	59.00	44.00	11.50
184-1C8	60.50	45.50	11.00
184-1C9	62.50	47.00	11.00
184-1C10	63.50	48.50	11.00
184-1C11	65.00	50.00	11.00
184-1C12	67.00	52.00	11.50
184-1C13	68.50	54.00	11.00
184-1C14	70.00	55.00	11.00
184-1C15	71.50	57.00	11.00



184mm 'Ø' HELIX Racing Clutch Range



Series Part No. 63-100 & 63-200

Cover Assembly is of a lug drive configuration one piece aluminium alloy This design allows the dust from the friction material to escape and reduces the heat build up. These are used with either sintered, cerametallic or organic faced drive plates in 1 to 3 plate formats.



Series Part No. 53-1000 & 54-1000

Sintered Drive Plates have a thin layer of metallic friction material bonded to on to both sides of the metal disc.

The very nature of this construction means this is normally used for circuit racing only.



This format is available as either a full circle with six thin slots or as a six spoke version for more arduous applications.

Series Part No. 53-2000 & 54-2000



Series Part No. 55-1000

Heavy duty organic faced drive plates with a rigid centre hub give a more progressive engagement of the clutch (compared to sintered or cerametallic clutch designs) enabling more control in clutch take up. Available in either single or twin plate formats.



Series Part No. 57-1000

Heavy duty organic faced drive plates with a sprung centre hub to give the most progressive engagement possible with this design of clutch. Only available as a single plate clutch.



Series Part No. 49-1000, 51-1000 & 52-1000



Cerametallic Paddle Drive plates have cerametallic segments riveted onto a steel back plate. These are thicker than the sintered type to give a higher heat capacity, while also giving improved heat dissipation where a greater level of clutch slip is required.

This design is used mainly for rally applications although it can be used very successfully for racing, especially endurance applications.



This format is available in:-

3 paddle type -- Series part No. 51-1000 4 paddle type -- Series part No. 52-1000 6 paddle type -- Series part No. 49-1000



Note:-

See separate sheet for all hub spline configurations available as standard.

Any spline can be manufactured but there will be a short time delay and extra cost.



Series Part No 56-1000 & 56-2000

Sprung centre cerametallic drive plate has the same properties as the rigid cerametallic drive plate, but with the addition of damper springs to cushion the impact of clutch engagement on the driveline components.



Only available as a single plate clutch.

3 paddle type -- Series part No.56-1000 4 paddle type -- Series part No 56-2000





Series Part No 62-100 & 62-200

Pull Type Design machined from aluminium billet is more efficient than a push type clutch unit.

These are of a less complicated construction and are therefore lighter and give a more consistent operation with better feel.

The Lug drive configuration allows the dust from the friction material to escape and reduces the heat build up. These are used with sintered or cerametallic drive plates.



Series Part No 63-100TP & 63-200TP

Cover Assembly design and dimensions as per 63-100 & 63-200 series but fitted with a release plate to facilitate the use of a flat face release bearing



Series Part No 48-2000 & 48-2090

Sintered drive plates with a main geared hub (48-2000) and floating hub drive plates (48-2090) either twin or triple



Series Part No 48-3001 & 48-2093

Organic drive plates with a main geared hub (48-3001) and floating hub drive plate

(48-2093) shown as a set





Series Part No 48-1001 & 48-2091

Cerametallic 4 paddle drive plates with a main geared hub (48-1001) and floating hub drive plate (48-2091)



Series Part No 48-1101 & 48-2092

Cerametallic 6 paddle drive plates with a main geared hub (48-1101) and floating hub drive plate (48-2092)



Ø184mm, Triple Sintered Drive Plate



62-130R 945Nm [695lb/ft] 62-130G 1428Nm [1050lb/ft]	Cover	er Torque Capacity		
	02 200	5 .5	[695lb/ft] [1050lb/ft]	

Cover	Release Load	Release Bearing Travel (Max)
62-130R	250Kg	
62-130G	318Kg	7.00mm

Set-Up Height (New)

62-130R	37.80mm
62-130G	38.10mm

Set-Up Height (Worn)

62-130R	34.80mm
62-130G	35.15mm

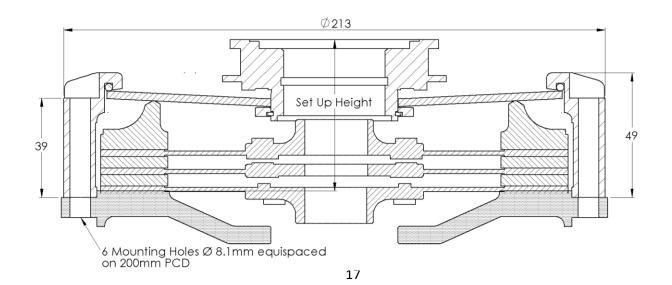
Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Sintered (Rigid)	53-1000	2.66 mm	2.34 mm	[See chart for spline details]	4.6 Kg
Sintered (Rigid)	54-1000	2.66 mm	2.34 mm	[See chart for spline details]	4.6 Kg
Sintered (Rigid)	53-1000A	2.66 mm	2.34 mm	[See chart for spline details]	4.6 Kg
Sintered (Rigid)	54-1000A	2.66 mm	2.34 mm	[See chart for spline details]	4.6 Kg

Other configurations available see index.

Spare Parts		Applications		
Wear Clips	184-61C			
Pressure Plate	184-17	Sintered Rigid Hub	Race	
Interplate	184-11 (x2)	_		
Flywheel Fixing Kit	184-1C			

Release Bearing: Depends on vehicle fitment – Please state when ordering.





Ø184mm, Twin Cerametallic Drive Plate



62-220G 463Nm [340lb/ft] 62-220Y 652Nm [480lb/ft]	Cover	Torque Cap	acity
	02 2200		

Cover	Release Load	Release Bearing Travel (Max)
62-220G	250Kg	
62-220Y	318Kg	7.00mm

Set-Up Height (New)

62-220G 37.80mm 62-220Y 38.10mm

Set-Up Height (Worn)

62-220G 34.80mm 62-220Y 35.15mm

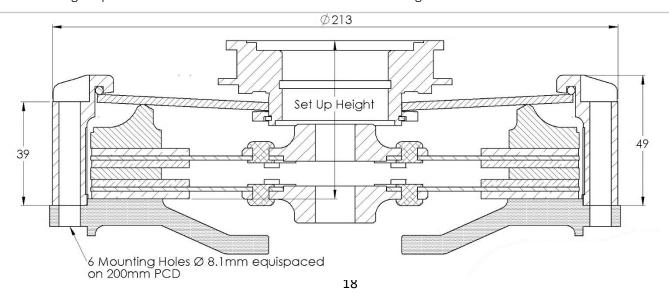
Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	55-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.6 Kg
3 Paddle (Rigid)	51-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.6 Kg
4 Paddle (Rigid)	52-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.6 Kg
6 Paddle (Rigid)	49-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.6 Kg

Other configurations available see index.

Spare Parts		Applications	
Wear Clips	184-61C	Organic Drive Plate Rigid Hub	Road
Pressure Plate	184-19	Paddle Rigid Hub	Race/Rally
Interplate	184-11		
Flywheel Fixing Kit	184-1C		

Release Bearing: Depends on vehicle fitment – Please state when ordering.





Ø184mm, Single Sintered Drive Plate



Cover	Torque Cap	acity
63-110B	231Nm	[170lb/ft]
63-110R	324Nm	[238lb/ft]
63-110G	494Nm	[363lb/ft]
63-110Y	535Nm	[394lb/ft]

Cover	Release Load	Release Bearing Travel (Max)
63-110B	250Kg	
63-110R	318Kg	6.00mm
63-110G	345Kg	
63-110Y	360Kg	

Set-Up Height (New)		
21.55mm		
21.95mm		
23.05mm		
23.55mm		

Set-Up Height (Worn)		
63-110B	25.05mm	
63-110R	25.45mm	
63-110G	26.55mm	
63-110Y	27.00mm	

Drive Plates

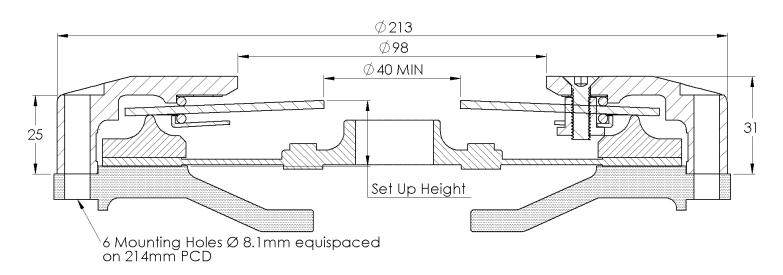
	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Sintered (Rigid)	53-1000	2.66 mm	1.88 mm	[See chart for spline details]	2.7 Kg
Sintered (Rigid)	53-1000A	2.66 mm	1.88 mm	[See chart for spline details]	2.7 Kg

Other configurations available see index.

Spare Parts

Wear Clips 184-61A Flywheel Fixing Kit 184-1A Pressure Plate 184-12

Release Bearing: Must have curved face with a fulcrum point of between 48mm to 54mm.





63-110c

Ø184mm, Single Sintered Drive PlateCurly Tip Diaphragm Spring



Cover	Torque Capacity	
63-110Bc	231Nm	[170lb/ft]
63-110Rc	324Nm	[238lb/ft]
63-110Gc	494Nm	[363lb/ft]
63-110Yc	535Nm	[394lb/ft]

Cover	Release Load	Release Bearing Travel (Max)
63-110Bc	250Kg	
63-110Rc	318Kg	6.00mm
63-110Gc	345Kg	
63-110Yc	360Kg	

Set-Up Height (New)		
24.55mm		
24.95mm		
26.05mm		
26.55mm		

Set-Up Height (Worn)		
63-110Bc	28.05mm	
63-110Rc	28.45mm	
63-110Gc	29.55mm	
63-110Yc	30.00mm	

Drive Plates

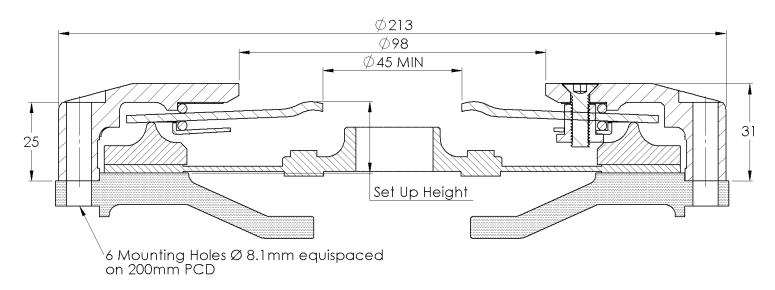
	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Sintered (Rigid)	53-1000	2.66 mm	1.88 mm	[See chart for spline details]	2.7 Kg
Sintered (Rigid)	53-1000A	2.66 mm	1.88 mm	[See chart for spline details]	2.7 Kg

Other configurations available see index.

Spare Parts

Wear Clips 184-61A Flywheel Fixing Kit 184-1A Pressure Plate 184-12

Release Bearing: Must have flat face with a fulcrum point of between 48mm to 54mm.





Ø184mm, Twin Sintered Drive Plate



Cover	Torque Capa	Torque Capacity		
63-120B	469Nm	[345lb/ft]		
63-120R	650Nm	[478lb/ft]		
63-120G	982Nm	[722lb/ft]		
63-120Y	1081Nm	[795lb/ft]		

Cover	Release Load	Release Bearing Travel (Max)
63-120B	250Kg	
63-120R	300Kg	6.00mm
63-120G	345Kg	
63-120Y	360Kg	

Set-Up Height (New)		
63-120B	27.70mm	
63-120R	28.70mm	
63-120G	29.70mm	
63-120Y	29.95mm	

Set-Up Height (Worn)		
63-120B	31.60mm	
63-120R	32.65mm	
63-120G	33.70mm	
63-120Y	34.20mm	

Drive Plates

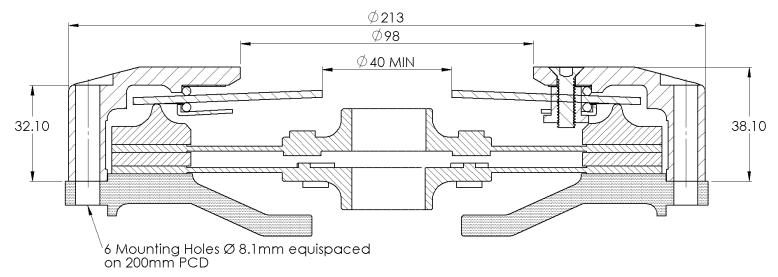
	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Sintered (Rigid)	53-1000	2.66 mm	2.22 mm	[See chart for spline details]	3.7 Kg
Sintered (Rigid)	53-1000A	2.66 mm	2.22 mm	[See chart for spline details]	3.7 Kg

Other configurations available see index.

Spare Parts

Wear Clips184-61BFlywheel Fixing Kit184-1BPressure Plate184-12Interplate184-11

Release Bearing: Must have curved face with a fulcrum point of between 48mm to 54mm.





63-120c

Ø184mm, Twin Sintered Drive PlateCurly Tip Diaphragm Spring



Cover	Torque Capa	Torque Capacity		
63-120Bc	469Nm	[345lb/ft]		
63-120Rc	650Nm	[478lb/ft]		
63-120Gc	982Nm	[722lb/ft]		
63-120Yc	1081Nm	[795lb/ft]		

Cover	Release Load	Release Bearing Travel (Max)
63-120Bc	250Kg	
63-120Rc	300Kg	6.00mm
63-120Gc	345Kg	
63-120Yc	360Kg	

Set-Up Height (New)		
30.70mm		
31.70mm		
32.70mm		
32.95mm		

Set-Up Height (Worn)		
63-120Bc	34.60mm	
63-120Rc	35.65mm	
63-120Gc	36.70mm	
63-120Yc	37.20mm	

Drive Plates

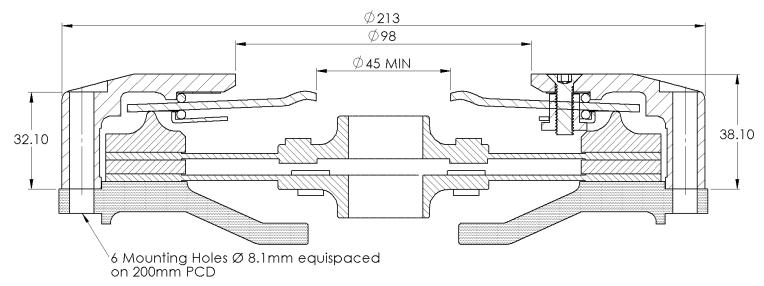
	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Sintered (Rigid)	53-1000	2.66 mm	2.22 mm	[See chart for spline details]	3.7 Kg
Sintered (Rigid)	53-1000A	2.66 mm	2.22 mm	[See chart for spline details]	3.7 Kg

Other configurations available see index.

Spare Parts

Wear Clips	184-61B	Flywheel Fixing Kit	184-1B
Pressure Plate	184-12	Interplate	184-11

Release Bearing: Must have flat face with a fulcrum point of between 48mm to 54mm.





Ø184mm, Triple Sintered Drive Plate



Torque Capacit	у
460Nm	[502lb/ft]
683Nm	[712lb/ft]
1466Nm	[1078lb/ft]
1612Nm	[1185lb/ft]
	683Nm 1466Nm

Cover	Release Load	Release Bearing Travel (Max)
63-130B	250Kg	
63-130R	300Kg	6.00mm
63-130G	345Kg	
63-130Y	360Kg	

Set-Up Heigr	it (New)
63-130B	37.10mm
63-130R	38.15mm
63-130G	38.70mm
63-130Y	39.20mm

Set-Up Heigh	nt (Worn)
63-130B	41.00mm
63-130R	42.05mm
63-130G	42.65mm
63-130Y	43.20mm

Drive Plates

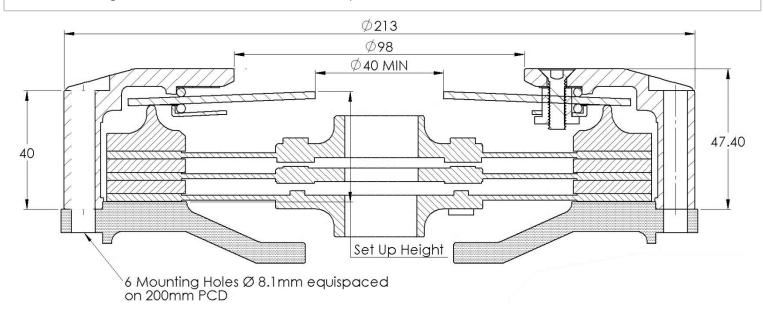
	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Sintered (Rigid)	53-1000	2.66 mm	2.34 mm	[See chart for spline details]	4.7 Kg
Sintered (Rigid)	54-1000	2.66 mm	2.34 mm	[See chart for spline details]	4.7 Kg
Sintered (Rigid)	53-1000A	2.66 mm	2.34 mm	[See chart for spline details]	4.7 Kg
Sintered (Rigid)	54-1000A	2.66 mm	2.34 mm	[See chart for spline details]	4.7 Kg

Other configurations available see index.

Spare Parts

Wear Clips184-61CFlywheel Fixing Kit184-1CPressure Plate184-14Interplate184-11 (x2)

Release Bearing: Must have curved face with a fulcrum point of between 48mm to 54mm.





63-130c

Ø184mm, Triple Sintered Drive PlateCurly Tip Diaphragm Spring



Cover	Torque Capa	icity
63-130Bc	460Nm	[502lb/ft]
63-130Rc	683Nm	[712lb/ft]
63-130Gc	1466Nm	[1078lb/ft]
63-130Yc	1612Nm	[1185lb/ft]

Cover	Release Load	Release Bearing Travel (Max)
63-130Bc	250Kg	
63-130Rc	300Kg	6.00mm
63-130Gc	345Kg	
63-130Yc	360Kg	

Set-Up Height	:(New)
63-130Bc	40.10mm
63-130Rc	41.15mm
63-130Gc	41.70mm
63-130Yc	42.20mm

Set-Up Heigh	it (Worn)
63-130Bc	44.00mm
63-130Rc	45.05mm
63-130Gc	45.65mm
63-130Yc	46.20mm

Drive Plates

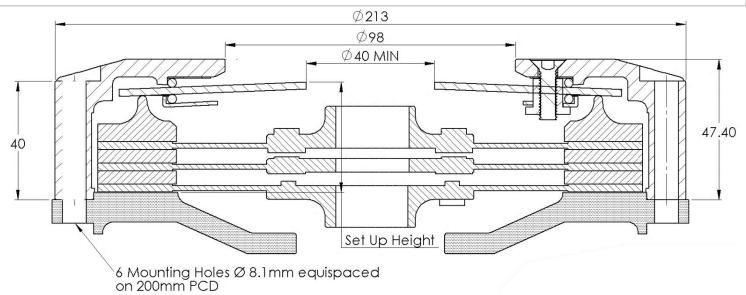
	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Sintered (Rigid)	53-1000	2.66 mm	2.34 mm	[See chart for spline details]	4.7 Kg
Sintered (Rigid)	54-1000	2.66 mm	2.34 mm	[See chart for spline details]	4.7 Kg
Sintered (Rigid)	53-1000A	2.66 mm	2.34 mm	[See chart for spline details]	4.7 Kg
Sintered (Rigid)	54-1000A	2.66 mm	2.34 mm	[See chart for spline details]	4.7 Kg

Other configurations available see index.

Spare Parts

Wear Clips184-61CFlywheel Fixing Kit184-1CPressure Plate184-14Interplate184-11 (x2)

Release Bearing: Must have flat face with a fulcrum point of between 48mm to 54mm.





Ø184mm, Single Cerametallic Drive Plate



Cover	Torque Capacity	
63-210B	211Nm [155lb/ft] Cerametallic Drive Plate
63-210R	299Nm [220lb/ft] Cerametallic Drive Plate
63-210G	445Nm [327lb/ft] Cerametallic Drive Plate
63-210Y	490Nm [360lb/ft] Cerametallic Drive Plate
63-210B	152Nm [112lb/ft] Organic Drive Plate
63-210R	216Nm [159lb/ft] Organic Drive Plate
63-210G	324Nm [238lb/ft] Organic Drive Plate
63-210Y	356Nm [262lb/ft] Organic Drive Plate
Cover	Release Load F	Release Bearing Travel
		(Max)
63-210B	250Kg	_
63-210B 63-210R		_
	250Kg	(Max)
63-210R	250Kg 300Kg	(Max)

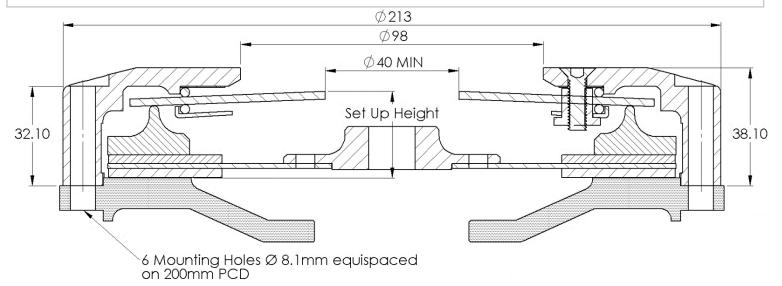
Set-Up Height (New)			
63-210B	28.80mm		
63-210R	30.40mm		
63-210G	31.50mm		
63-210Y	31.80mm		

Set-Up Height (Worn)		
63-210B	32.70mm	
63-210R	33.55mm	
63-210G	35.35mm	
63-210Y	35.70mm	

Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	55-1000	7.20 mm	6.30 mm	[See chart for spline details]	2.7 Kg
3 Paddle (Rigid)	51-1000	7.20 mm	6.30 mm	[See chart for spline details]	2.8 Kg
4 Paddle (Rigid)	52-1000	7.20 mm	6.30 mm	[See chart for spline details]	2.9 Kg
6 Paddle (Rigid)	49-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.0 Kg

Spare Parts		Applications	Applications	
Wear Clips	184-61B	Organic Drive Plate Rigid Hub	Road	
Pressure Plate	184-15	Paddle Rigid Hub	Race/Rally	
Flywheel Fixing Kit	184-1B			
Release Bearing: Must ha	ve curved face with a ful	crum point of between 48mm to 54mm.		





63-210c

Ø184mm, Single Cerametallic Drive Plate Curly Tip Diaphragm Spring



Cover	Torque Capacit	zy .
63-210Bc	211Nm [155lb,	/ft] Cerametallic Drive Plate
63-210Rc	299Nm [220lb,	/ft] Cerametallic Drive Plate
63-210Gc	445Nm [327lb,	/ft] Cerametallic Drive Plate
63-210Yc	490Nm [360lb,	/ft] Cerametallic Drive Plate
63-210Bc	152Nm [112lb,	/ft] Organic Drive Plate
63-210Rc	216Nm [159lb,	/ft] Organic Drive Plate
63-210Gc	324Nm [238lb,	/ft] Organic Drive Plate
63-210Yc	356Nm [262lb,	/ft] Organic Drive Plate
Cover	Release Load	Release Bearing Travel
		(Max)
63-210Bc	250Kg	
63-210Rc	300Kg	6.00mm
63-210Gc	345Kg	
63-210Yc	360Kg	

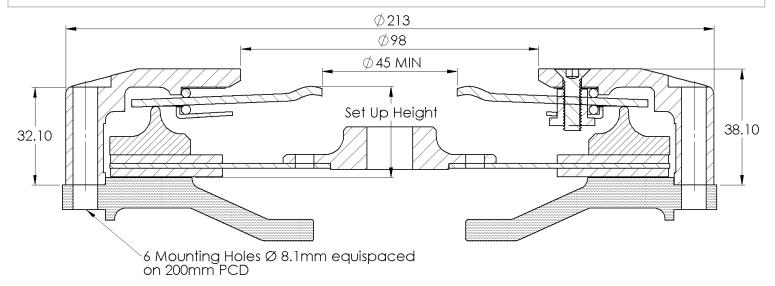
Set-Up Height (New) 63-210Bc 31.80mm 63-210Rc 33.40mm 63-210Gc 34.50mm 63-210Yc 34.80mm

Set-Up Height (Worn)		
63-210Bc	35.70mm	
63-210Rc	36.55mm	
63-210Gc	38.35mm	
63-210Yc	38.70mm	

Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	55-1000	7.20 mm	6.30 mm	[See chart for spline details]	2.7 Kg
3 Paddle (Rigid)	51-1000	7.20 mm	6.30 mm	[See chart for spline details]	2.8 Kg
4 Paddle (Rigid)	52-1000	7.20 mm	6.30 mm	[See chart for spline details]	2.9 Kg
6 Paddle (Rigid)	49-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.0 Kg

Spare Parts		Applications		
Wear Clips	184-61B	Organic Drive Plate Rigid Hub	Road	
Pressure Plate	184-15	Paddle Rigid Hub	Race/Rally	
Flywheel Fixing Kit	184-1B			
Release Bearing: Must ha	ve flat face with a fulcrui	m point of between 48mm to 54mm		





Ø184mm, Twin Cerametallic Drive Plate



Cover	Torque Capacit	у
63-220B	291Nm [214lb/	[ft] Cerametallic Drive Plate
63-220R	422Nm [310lb/	ft] Cerametallic Drive Plate
63-220G	626Nm [460lb/	ft] Cerametallic Drive Plate
63-220Y	688Nm [506lb/	ft] Cerametallic Drive Plate
63-220B	215Nm [158lb/	ft] Organic Drive Plate
63-220R	305Nm [224lb/	ft] Organic Drive Plate
63-220G	453Nm [333lb/	ft] Organic Drive Plate
63-220Y	498Nm [366lb/	ft] Organic Drive Plate
Cover	Release Load	Release Bearing Travel
		(Max)
63-220B	255Kg	
63-220R	300Kg	6.00mm
63-220G	345Kg	
63-220Y	360Kg	
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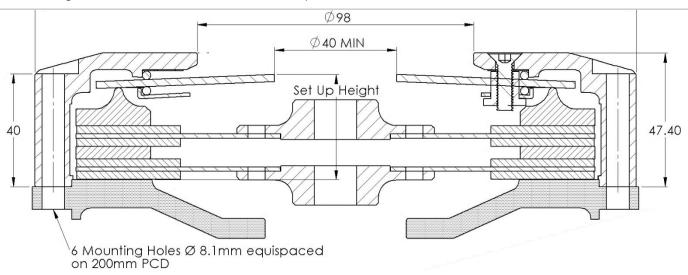
Set-Up Height (New) 63-220B 37.55mm 63-220R 38.40mm 63-220G 39.30mm 63-220Y 39.55mm

Set-Up Height (Worn)		
63-220B	41.45mm	
63-220R	42.50mm	
63-220G	43.80mm	
63-220Y	44.10mm	

Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	55-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.8 Kg
3 Paddle (Rigid)	51-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.9 Kg
4 Paddle (Rigid)	52-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.1 Kg
6 Paddle (Rigid)	49-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.5 Kg

Spare Parts Applications		Applications		
Wear Clips	184-61C	Organic Drive Plate Rigid Hub	Road	
Pressure Plate	184-12	Paddle Rigid Hub	Race/Rally	
Flywheel Fixing Kit	184-1C			
Interplate	184-11			
Release Bearing: Must have curved face with a fulcrum point of between 48mm to 54mm.				





63-220c

Ø184mm, Twin Cerametallic Drive Plate Curly Tip Diaphragm Spring



Torque Capacity	
291Nm [214lb/ft]	Cerametallic Drive Plate
422Nm [310lb/ft]	Cerametallic Drive Plate
626Nm [460lb/ft]	Cerametallic Drive Plate
688Nm [506lb/ft]	Cerametallic Drive Plate
215Nm [158lb/ft]	Organic Drive Plate
305Nm [224lb/ft]	Organic Drive Plate
453Nm [333lb/ft]	Organic Drive Plate
498Nm [366lb/ft]	Organic Drive Plate
ease Load Releas	se Bearing Travel
	(Max)
255Kg	
300Kg	6.00mm
345Kg	
360Kg	
	291Nm [214lb/ft] 422Nm [310lb/ft] 626Nm [460lb/ft] 688Nm [506lb/ft] 215Nm [158lb/ft] 305Nm [224lb/ft] 453Nm [333lb/ft] 498Nm [366lb/ft] ease Load Release 255Kg 300Kg 345Kg

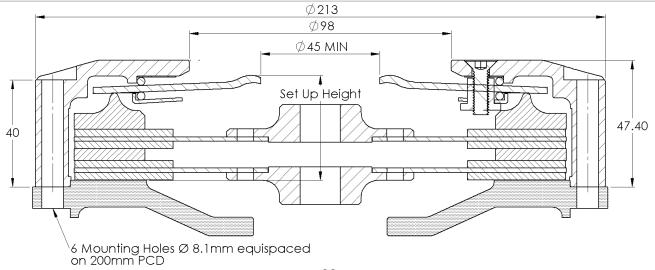
Set-Up Height (New)			
63-220Bc	40.55mm		
63-220Rc	41.40mm		
63-220Gc	42.30mm		
63-220Yc	42.55mm		

Set-Up Height (Worn)			
63-220Bc	44.45mm		
63-220Rc	45.50mm		
63-220Gc	46.80mm		
63-220Yc	47.10mm		

Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	55-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.8 Kg
3 Paddle (Rigid)	51-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.9 Kg
4 Paddle (Rigid)	52-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.1 Kg
6 Paddle (Rigid)	49-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.5 Kg

Spare Parts		Applications		
Wear Clips	184-61C	Organic Drive Plate Rigid Hub	Road	
Pressure Plate	184-12	Paddle Rigid Hub	Race/Rally	
Flywheel Fixing Kit	184-1C			
Interplate	184-11			
Release Bearing: Must have flat face with a fulcrum point of between 48mm to 54mm.				





Ø184mm, Triple Cerametallic Drive Plate



Cover	Torque Capacity	
63-230R	422Nm [310lb/ft]	Cerametallic Drive Plate
63-230G	626Nm [460lb/ft]	Cerametallic Drive Plate
63-230Y	688Nm [506lb/ft]	Cerametallic Drive Plate
63-230R	305Nm [224lb/ft]	Organic Drive Plate
63-230G	453Nm [333lb/ft]	Organic Drive Plate
63-230Y	498Nm [366lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
63-230R	300Kg	6.00mm
63-230G	345Kg	
63-230Y	360Kg	

Set-Up Height (New)

63-230R 44.00mm 63-230G 44.70mm 63-230Y 44.90mm

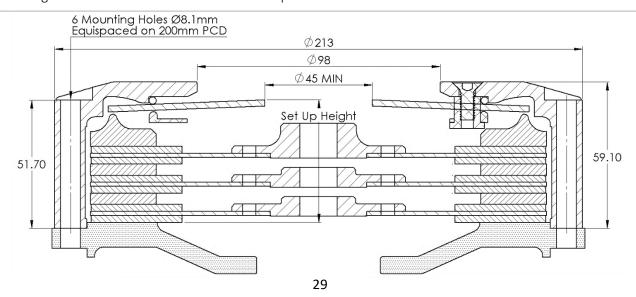
Set-Up Height (Worn)

63-230R 48.10mm 63-230G 49.00mm 63-230Y 49.00mm

Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	55-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.8 Kg
3 Paddle (Rigid)	51-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.9 Kg
4 Paddle (Rigid)	52-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.1 Kg
6 Paddle (Rigid)	49-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.5 Kg

Spare Parts	Applications		
Wear Clips	184-61E	Organic Drive Plate Rigid Hub	Road
Pressure Plate	184-19	Paddle Rigid Hub	Race/Rally
Flywheel Fixing Kit	184-1D		
Interplate	184-11		
Release Bearing: Must ha	ve curved face with a ful	crum point of between 48mm to 54mm.	





63-230c

Ø184mm, Triple Cerametallic Drive Plate

Curly Tip Diaphragm Spring



Cover	Torque Capacity	
63-230Rc	422Nm [310lb/ft]	Cerametallic Drive Plate
63-230Gc	626Nm [460lb/ft]	Cerametallic Drive Plate
63-230Yc	688Nm [506lb/ft]	Cerametallic Drive Plate
63-230Rc	305Nm [224lb/ft]	Organic Drive Plate
63-230Gc	453Nm [333lb/ft]	Organic Drive Plate
63-230Yc	498Nm [366lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
63-230Rc	300Kg	6.00mm
63-230Gc	345Kg	
63-230Yc	360Kg	

Set-Up Height (New)

63-230Rc 47.00mm 63-230Gc 47.90mm 63-230Yc 48.00mm

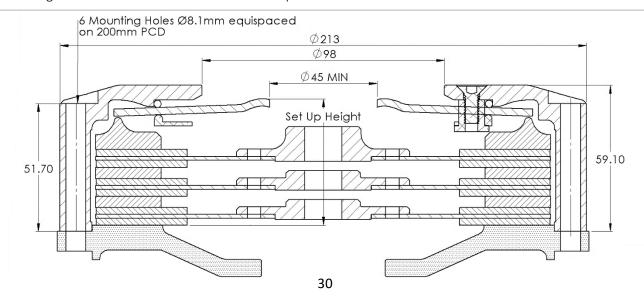
Set-Up Height (Worn)

63-230Rc 52.00mm 63-230Gc 52.90mm 63-230Yc 53.10mm

Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	55-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.8 Kg
3 Paddle (Rigid)	51-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.9 Kg
4 Paddle (Rigid)	52-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.1 Kg
6 Paddle (Rigid)	49-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.5 Kg

Spare Parts		Applications	
Wear Clips	184-61E	Organic Drive Plate Rigid Hub	Road
Pressure Plate	184-19	Paddle Rigid Hub	Race/Rally
Flywheel Fixing Kit	184-1C		
Interplate	184-11		
Release Bearing: Must ha	ve curved face with a ful	crum point of between 48mm to 54mm.	





63-230 Short

Ø184mm, Triple Organic Drive Plate

For those wanting grater torque capacity in a smaller form



Cover	Torque Capacity	
63-230SR	560Nm [411lb/ft]	Organic Drive Plate
63-230SG	685Nm [504lb/ft]	Organic Drive Plate
63-230SY	898Nm [660lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
63-230SR	300Kg	6.00mm
63-230SG	345Kg	
63-230SY	360Kg	

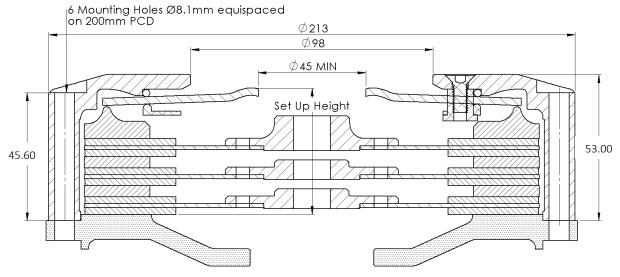
Set-Up Height	(New)
63-230SR	46.50mm
63-230SG	46.30mm
63-230SY	46.10mm
63-230SRc	49.50mm
63-230SGc	49.30mm
63-230SYc	49.10mm

Set-Up Height	t (Worn)
63-230SR	50.50mm
63-230SG	49.80mm
63-230SY	49.10mm
63-230SRc	53.50mm
63-230SGc	52.80mm
63-230SYc	52.10mm
1	

Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	55-2000	5.50 mm	4.90 mm	[See chart for spline details]	2.6 Kg

Spare Parts		Applications		
Wear Clips	184-61D	Organic Drive Plate Rigid Hub	Road	
Pressure Plate	184-19			
Flywheel Fixing Kit	184-1C			
Interplate	184-11			
Release Bearing: Must ha	we curved face with a ful	crum point of between 18mm to 51mm		





	54-1032 54-1033
Cerametallic Cerametallic Cerametallic Outer 87 51-1001 Rigid Hub Rigid Hub Rigid Hub 153-1001 97 51-1002 52-1002 49-1002 53-1002 97 51-1003 52-1003 49-1003 53-1003 51-1004 52-1004 49-1003 53-1003 51-1005 52-1006 49-1006 53-1006 51-1006 52-1006 49-1006 53-1006 51-1007 52-1006 49-1006 53-1006 51-1008 52-1007 49-1007 53-1006 51-1009 52-1008 49-1009 53-1008 51-1010 52-1010 49-1010 53-1008 51-1011 52-1011 49-1010 53-1011 51-1012 52-1012 49-1011 53-1011 51-1013 52-1013 49-1014 49-1011 51-1014 52-1013 49-1014 53-1013 51-1015 52-1013 49-1013 53-1013 51-1016	54-1032
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Gerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Rigid Hub Outer 87 51-1001 52-1001 49-1001 53-1001 97 51-1002 52-1002 49-1003 53-1002 197 51-1004 52-1003 49-1003 53-1003 51-1006 52-1006 49-1003 53-1003 51-1007 52-1006 49-1005 53-1006 51-1008 52-1006 49-1006 53-1006 51-1009 52-1009 49-1009 53-1006 51-1010 52-1001 49-1009 53-1009 51-1011 52-1011 49-1011 53-1011 51-1012 52-1012 49-1012 53-1011 51-1013 52-1013 49-1013 53-1012 51-1014 52-1013 49-1014 53-1013 51-1015 52-1013 49-1015 53-1013 51-1018 52-1013 49-1016 53-1013 51-1021	54-1026
Gerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Rigid Hub Outer 81 51-1001 52-1001 49-1001 53-1001 91 51-1002 52-1002 49-1002 53-1002 91 51-1003 52-1003 49-1003 53-1003 91 51-1004 52-1006 49-1003 53-1003 91-1005 52-1006 49-1005 53-1004 91-1006 52-1006 49-1005 53-1005 91-1007 52-1007 49-1007 53-1006 91-1008 52-1008 49-1009 53-1006 91-1009 52-1009 49-1009 53-1006 91-1010 52-1011 49-1010 53-1010 91-1011 52-1011 49-1011 53-1011 91-1012 52-1013 49-1011 53-1011 91-1013 52-1013 49-1014 53-1013 91-1014 52-1013 49-1015 53-1013	54-1025
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Rigid Hub Voter 817 51-1001 52-1001 49-1001 53-1001 91 51-1002 52-1002 49-1002 53-1002 91 51-1004 52-1003 49-1003 53-1003 91 51-1004 52-1006 49-1004 53-1004 91 51-1005 52-1006 49-1006 53-1006 51-1006 52-1006 49-1006 53-1006 51-1007 52-1007 49-1006 53-1006 51-1008 52-1008 49-1008 53-1006 51-1009 52-1009 49-1008 53-1006 51-1010 52-1011 49-1010 53-1010 51-1011 52-1012 49-1011 53-1011 51-1012 52-1013 49-1013 53-1013 51-1013 52-1014 49-1015 53-1013 51-1014 52-1015 49-1016 53-1014 <	54-1024
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Rigid Hub Outer 87 51-1001 52-1001 49-1001 53-1001 97 51-1002 52-1002 49-1003 53-1003 51-1004 52-1005 49-1003 53-1004 51-1005 52-1006 49-1005 53-1006 51-1006 52-1006 49-1006 53-1006 51-1007 52-1007 49-1006 53-1006 51-1008 52-1009 49-1006 53-1006 51-1009 52-1009 49-1009 53-1009 51-1010 52-1010 49-1001 53-1010 51-1011 52-1011 49-1011 53-1011 51-1012 52-1011 49-1011 53-1012 51-1013 52-1015 49-1013 53-1013 51-1014 52-1015 49-1016 53-1013 51-1015 52-1016 49-1016 53-1013 51-1021 52-1019 <td>54-1023</td>	54-1023
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Rigid Hub 97 51-1001 52-1001 49-1001 53-1001 97 51-1002 52-1002 49-1002 53-1002 97 51-1003 52-1003 49-1003 53-1003 51-1004 52-1003 49-1004 53-1004 51-1006 52-1005 49-1006 53-1006 51-1007 52-1006 49-1006 53-1006 51-1009 52-1009 49-1009 53-1006 51-1001 52-1009 49-1009 53-1009 51-1011 52-1010 49-1010 53-1009 51-1012 52-1011 49-1011 53-1011 51-1013 52-1012 49-1012 53-1013 51-1014 52-1013 49-1014 53-1013 51-1015 52-1015 49-1015 53-1013 51-1016 52-1015 49-1016 53-1016 51-1021 52-1016	54-1022
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Cerametallic Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Rigid Hub Outer 817 51-1001 52-1001 49-1001 53-1001 97 51-1002 52-1002 49-1002 53-1002 21 51-1003 52-1003 49-1003 53-1003 51-1004 52-1004 49-1004 53-1003 51-1005 52-1005 49-1006 53-1003 51-1006 52-1006 49-1006 53-1006 51-1007 52-1007 49-1007 53-1007 51-1008 52-1008 49-1009 53-1008 51-1009 52-1009 49-1009 53-1009 51-1011 52-1011 49-1011 53-1011 417 51-1012 52-1011 49-1011 53-1011 417 51-1013 52-1011 49-1011 53-1011 417 51-1013 52-1013 49-1013 53-1013 51-1014 52-1015	54-1018
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Rigid Hub 3T 51-1001 52-1001 49-1001 53-1001 2T 51-1002 52-1002 49-1002 53-1002 2T 51-1003 52-1003 49-1003 53-1003 51-1004 52-1005 49-1004 53-1003 51-1006 52-1006 49-1006 53-1006 51-1007 52-1007 49-1007 53-1007 51-1008 52-1009 49-1009 53-1008 51-1009 52-1009 49-1009 53-1009 51-1011 52-1011 49-1011 53-1011 41 51-1012 52-1011 49-1011 53-1011 51-1013 52-1013 49-1012 53-1013 51-1014 52-1013 49-1013 53-1014 51-1015 52-1016 49-1015 53-1015 51-1016 52-1016 49-1016 53-1016	54-1017
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Rigid Hub 3T 51-1001 52-1001 49-1001 53-1001 51-1002 52-1002 49-1002 53-1002 2T 51-1003 52-1003 49-1003 53-1003 51-1004 52-1005 49-1004 53-1004 4T 51-1006 52-1006 49-1006 53-1006 51-1007 52-1007 49-1007 53-1006 51-1008 52-1008 49-1009 53-1008 51-1009 52-1009 49-1009 53-1008 51-1010 52-1010 49-1010 53-1010 4T 51-1011 52-1011 49-1011 53-1011 4T 51-1012 52-1012 49-1012 53-1011 4T 51-1013 52-1013 49-1013 53-1013 51-1014 52-1013 49-1014 53-1013 51-1015 52-1015 49-1015 53-1013	54-1016
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub 153-1001 53-1001 37 51-1001 52-1001 49-1001 53-1001 51-1002 52-1002 49-1002 53-1002 51-1003 52-1003 49-1003 53-1003 51-1004 52-1004 49-1004 53-1004 47 51-1006 52-1005 49-1005 53-1006 51-1007 52-1007 49-1007 53-1006 51-1008 52-1008 49-1008 53-1008 51-1009 52-1009 49-1009 53-1008 51-1010 52-1010 49-1010 53-1010 51-1011 52-1011 49-1011 53-1011 51-1012 52-1013 49-1012 53-1012 51-1014 52-1014 49-1014 53-1013	54-1015
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Tigid Hub S3-1001 51-1001 52-1001 49-1001 53-1001 51-1002 52-1002 49-1002 53-1002 51-1003 52-1003 49-1003 53-1003 51-1004 52-1004 49-1004 53-1003 51-1005 52-1005 49-1006 53-1005 51-1006 52-1006 49-1006 53-1006 51-1007 52-1007 49-1007 53-1007 51-1008 52-1008 49-1008 53-1008 51-1009 52-1009 49-1009 53-1009 51-1010 52-1010 49-1010 53-1010 51-1011 52-1011 49-1011 53-1011 51-1013 52-1013 49-1012 53-1013	54-1014
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Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Viter 51-1001 52-1001 49-1001 53-1001 51-1002 52-1002 49-1002 53-1002 51-1003 52-1003 49-1003 53-1003 51-1004 52-1004 49-1004 53-1004 51-1005 52-1005 49-1005 53-1006 51-1006 52-1006 49-1006 53-1006 51-1007 52-1007 49-1007 53-1008 51-1008 52-1008 49-1009 53-1008 51-1009 52-1009 49-1009 53-1009 51-1001 52-1010 49-1009 53-1009	54-1011
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Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub 53-1001 51-1001 52-1001 49-1001 53-1001 51-1002 52-1002 49-1002 53-1002 51-1003 52-1003 49-1003 53-1003 51-1004 52-1004 49-1004 53-1004 51-1005 52-1006 49-1006 53-1006 51-1007 52-1007 49-1007 53-1007	54-1008
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub 53-1001 51-1001 52-1001 49-1001 53-1001 51-1002 52-1002 49-1002 53-1002 51-1003 52-1003 49-1003 53-1003 51-1004 52-1004 49-1004 53-1005 51-1005 52-1006 49-1006 53-1006	54-1007
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Figid Hub 51-1001 52-1001 49-1001 53-1001 51-1002 52-1002 49-1002 53-1002 51-1003 52-1003 49-1003 53-1003 51-1004 52-1004 49-1004 53-1004 51-1005 52-1005 49-1005 53-1005	54-1006
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Figid Hub 51-1001 52-1001 49-1001 53-1001 51-1002 52-1002 49-1002 53-1002 51-1003 52-1003 49-1003 53-1003 51-1004 52-1004 49-1004 53-1004	54-1005
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Rigid Hub 51-1001 52-1001 49-1001 53-1001 51-1002 52-1002 49-1002 53-1002 51-1003 52-1003 49-1003 53-1003	54-1004
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub Rigid Hub 51-1001 52-1001 49-1001 53-1001 51-1002 52-1002 49-1002 53-1002	54-1003
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub 51-1001 52-1001 49-1001 53-1001	54-1002
Cerametallic Cerametallic Cerametallic Outer Rigid Hub Rigid Hub Rigid Hub	54-1001
Cerametallic Cerametallic Cerametallic Outer	
	Inner
3 Paddle 4 Paddle 6 Paddle Sintered Sintered	Sintered



184mm Ø Sintered, Cerametallic & Organic Drive Plate Hub Spline Details.

27.2mm x 10T	33mm x 30T	38mm x 10T	34mm x 6T	25mm x 6T	7/8" x 6T	24.3 x 21T	1" x 6T	29mm x 26T	24.5mm x 21T	35mm x 26T	17.3mm x 20T	20mm x 19T	28mm x 25T	29mm x 22T	25.4mm x 23T	19mm x 17T	13/8"×10T	22.5mm x 19T	28mm x 20T	Ø Teeth		Spline Data
51-1058	51-1057	51-1056	51-1055	51-1054	51-1053	51-1052	51-1051	51-1050	51-1049	51-1048	51-1047	51-1046	51-1045	51-1044	51-1043	51-1042	51-1041	51-1040	51-1039	Rigid Hub	Cerametallic	3 Paddle
52-1058	52-1057	52-1056	52-1055	52-1054	52-1053	52-1052	52-1051	52-1050	52-1049	52-1048	52-1047	52-1046	52-1045	52-1044	52-1043	52-1042	52-1041	52-1040	52-1039	Rigid Hub	Cerametallic	4 Paddle
49-1058	49-1057	49-1056	49-1055	49-1054	49-1053	49-1052	49-1051	49-1050	49-1049	49-1048	49-1047	49-1046	49-1045	49-1044	49-1043	49-1042	49-1041	49-1040	49-1039	Rigid Hub	Cerametallic	6 Paddle
53-1058	53-1057	53-1056	53-1055	53-1054	53-1053	53-1052	53-1051	53-1050	53-1049	53-1048	53-1047	53-1046	53-1045	53-1044	53-1043	53-1042	53-1041	53-1040	53-1039		Outer	Sintered
54-1058	54-1057	54-1056	54-1055	54-1054	54-1053	54-1052	54-1051	54-1050	54-1049	54-1048	54-1047	54-1046	54-1045	54-1044	54-1043	54-1042	54-1041	54-1040	54-1039		Inner	Sintered
											55-1047	55-1046				55-1042		55-1040			Rigid	Organic
											57-1047	57-1046				57-1042		57-1040			Sprung Hub	Organic
											56-1047	56-1046				56-1042		56-1040		Sprung Hub	Cerametallic	3 Paddle
											56-2047	56-2046				56-2042		56-2040		Sprung Hub	Cerametallic	4 Paddle
Lancia Astura	Ferrari Flywheel HF 9476	Lancia	O.M 1929		Alfa Romeo	Lotus	Ferrari	Audi & Volkswagen	Renault	BMW	Fiat, Renault	Honda	Ferrari	BMW	Sadev Gearbox spline	SAAB	Ferrari	Toyota	Toyota			Application



184mm Ø Sintered, Cerametallic & Organic Drive Plate Hub Spline Details Geared Hub Plate

Geared

Geared

Geared



184mm Ø Sintered, Cerametallic & Organic Drive Plate Hub Spline Details

Hub Plate Geared Geared Geared Sintered Hub Plate Cerametallic Organic 48-2039 48-1039 48-1039 48-1039 48-1039 48-2040 48-1040 48-1140 48-3040 48-1041 48-2041 48-2041 48-1042 48-1042 48-1042 48-1042 48-1042 48-1043 48-1043 48-1043 48-1043 48-1044 48-1043 48-1044 48-1044 48-1044 48-1045 48-2045 48-2045 48-1045 48-1145 48-3045 48-2046 48-1046 48-1046 48-1146 48-3046 48-1046 48-3046 48-1046 48-2046 48-1046 48-1046 48-1046 48-3046 48-1046 48-2056 48-1059 48-1150 48-3046 48-3051 48-2059 48-1059 48-1150 48-3059 48-1059 48-2059 48-1059 48-1150 48-3059 48-2059 48-1059 48-1150 48-3059 48-2059 48-1059 48-1059 48-1150 48-3059 48-2059 48-2059 48-1059 48-1150 48-3059 48-2059 48-2059 48-1059 48-1150 48-3059 48-2059 48-2059 48-1059 48-1150 48-3059 48-2059 48-2059 48-1059 48-1150 48-3059 48-2059 48-2059 48-1059 48-1150 48-3059 48-2059 48-2059 48-2059 48-1059 48-2059 4	Plate	48-2093	48-2092	48-2091	48-2090	Geared Floating Hub
Hub Plate Geared Geared Sintered Hub Plate Cerametallic Cerametallic Cerametallic h 48-2039 48-1039 48-1139 17 48-2040 48-1040 48-1140 17 48-2041 48-1041 48-1141 17 48-2042 48-1042 48-1141 17 48-2043 48-1043 48-1141 17 48-2043 48-1044 48-1143 17 48-2044 48-1044 48-1144 17 48-2045 48-1045 48-1144 17 48-2046 48-1046 48-1145 17 48-2047 48-1046 48-1145 17 48-2049 48-1049 48-1146 101 48-2050 48-1059 48-1149 117 48-2050 48-1059 48-1150 118-2053 48-1059 48-1159 119 48-2053 48-1059 48-1159 110 48-2054 48-1055 48-1159 1110 48-2055 48-1059 48-1159 1110 48-2055 48-1059 48-1159 1121 48-2059 48-1059 48-1159 1121 48-2059 48-1059 48-1159 1131 48-2059 48-1059 48-1159 1148 48-2059 48-1059 48-1159 1150 48-2059 48-1059 48-1159 1160 48-2059 48-1059 48-1159 1170 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159 1180 48-2059 48-1059 48-1159	Geared Floating	2000		2000		
Hub Plate Geared Geared Sintered Hub Plate Cerametallic Cerametallic h 48-2039 48-1039 48-1139 17 48-2040 48-1040 48-1140 17 48-2041 48-1041 48-1141 17 48-2042 48-1041 48-1141 17 48-2043 48-1043 48-1142 17 48-2045 48-1044 48-1143 17 48-2046 48-1044 48-1143 17 48-2046 48-1045 48-1145 17 48-2049 48-1049 48-1145 10 48-2050 48-1050 48-1149 11 48-2050 48-1051 48-1151 11 48-2053 48-1053 48-1153 148-2056 48-1055 48-1155 148-2057 48-1057 48-1157		48-3058	48-1158	48-1058	48-2058	27.2mm x 10T
Hub Plate Geared Geared Sintered Hub Plate Cerametallic Cerametallic Cerametallic Cerametallic Hub Plate 1 48-2039 48-1039 48-1139 17 48-2040 48-1040 48-1140 17 48-2041 48-1041 48-1141 17 48-2042 48-1042 48-1141 17 48-2043 48-1043 48-1142 17 48-2045 48-1043 48-1143 17 48-2046 48-1043 48-1143 17 48-2046 48-1049 48-1145 10 48-2046 48-1049 48-1145 10 48-2049 48-1049 48-1145 11 48-2050 48-1050 48-1150 11 48-2051 48-1051 48-1151 11 48-2053 48-1053 48-1153 148-2055 48-1056 48-1156		48-3057	48-1157	48-1057	48-2057	33mm x 30T
Hub Plate Geared Geared Sintered Hub Plate Cerametallic Cerametallic h 48-2039 48-1039 17 48-2040 48-1039 197 48-2041 48-1040 17 48-2042 48-1041 48-1140 17 48-2043 48-1042 48-1141 17 48-2043 48-1043 48-1141 17 48-2044 48-1043 48-1143 17 48-2045 48-1045 48-1143 17 48-2046 48-1045 48-1143 17 48-2046 48-1045 48-1145 107 48-2048 48-1046 48-1145 107 48-2049 48-1049 48-1146 107 48-2050 48-1049 48-1149 117 48-2050 48-1051 48-1150 148-2051 48-1053 48-1151 148-2053 48-1053 48-1153 148-2055 48-1055 48-1154		48-3056	48-1156	48-1056	48-2056	38mm x 10T
Hub Plate Geared Geared Sintered Hub Plate Cerametallic Cerametallic h 48-2039 48-1039 48-1139 17 48-2040 48-1040 48-1140 17 48-2041 48-1042 48-1141 17 48-2042 48-1043 48-1141 17 48-2043 48-1043 48-1141 17 48-2043 48-1043 48-1142 17 48-2044 48-1043 48-1143 17 48-2046 48-1043 48-1143 17 48-2046 48-1045 48-1145 107 48-2048 48-1046 48-1145 107 48-2048 48-1049 48-1147 11 48-2050 48-1050 48-1150 11 48-2050 48-1051 48-1151 11 48-2053 48-1053 48-1153 148-2054 48-1054 48-1153		48-3055	48-1155	48-1055	48-2055	34mm x 6T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic Cerametallic Cerametallic Geared 1 48-2039 48-1049 48-1139 197 48-2040 48-1040 48-1140 1 48-2041 48-1041 48-1141 1 48-2042 48-1041 48-1141 1 48-2043 48-1043 48-1141 1 48-2045 48-1045 48-1143 1 48-2046 48-1046 48-1145 1 48-2046 48-1046 48-1145 1 48-2048 48-1049 48-1147 1 48-2049 48-1049 48-1149 11 48-2050 48-1051 48-1151 11 48-2053 48-1053 48-1153		48-3054	48-1154	48-1054	48-2054	25mm x 6T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic Cerametallic 1 48-2039 48-1039 48-1139 197 48-2040 48-1040 48-1140 197 48-2041 48-1042 48-1140 17 48-2042 48-1042 48-1141 17 48-2043 48-1043 48-1143 17 48-2045 48-1045 48-1143 17 48-2045 48-1045 48-1145 207 48-2046 48-1047 48-1146 207 48-2048 48-1048 48-1145 217 48-2049 48-1049 48-1149 217 48-2049 48-1059 48-1149 217 48-2050 48-1059 48-1150 48-2051 48-1052 48-1151 48-2052 48-1052 48-1152		48-3053	48-1153	48-1053	48-2053	7/8" x 6T
Hub Plate Geared Geared Geared Sintered Hub Plate Hub Plate Hub Plate Cerametallic Cerametallic Cerametallic 1 48-2039 48-1039 48-1139 197 48-2040 48-1040 48-1140 197 48-2041 48-1041 48-1141 1 48-2042 48-1042 48-1142 237 48-2043 48-1043 48-1143 1 48-2044 48-1043 48-1143 1 48-2045 48-1045 48-1145 207 48-2046 48-1048 48-1146 207 48-2048 48-1048 48-1147 217 48-2049 48-1048 48-1148 217 48-2049 48-1049 48-1149 48-2050 48-1050 48-1150 48-2051 48-1051 48-1151		48-3052	48-1152	48-1052	48-2052	24.3mm x 21T
Hub Plate Geared Geared Geared Sintered Hub Plate Hub Plate Hub Plate Cerametallic Cerametallic Cerametallic 1 48-2039 48-1039 48-1139 19T 48-2040 48-1040 48-1140 19T 48-2041 48-1041 48-1141 1 48-2042 48-1042 48-1142 23T 48-2043 48-1043 48-1143 1 48-2045 48-1045 48-1143 1 48-2046 48-1045 48-1146 20T 48-2047 48-1048 48-1147 20T 48-2048 48-1049 48-1149 21T 48-2049 48-1049 48-1149 48-2050 48-1050 48-1150		48-3051	48-1151	48-1051	48-2051	1" x 6T
Hub Plate Geared Geared Geared Sintered Hub Plate Hub Plate Hub Plate Cerametallic Cerametallic Cerametallic 1 48-2039 48-1039 48-1139 197 48-2040 48-1040 48-1140 197 48-2041 48-1041 48-1141 1 48-2042 48-1042 48-1142 237 48-2043 48-1043 48-1143 1 48-2044 48-1043 48-1143 1 48-2045 48-1045 48-1145 1 48-2046 48-1046 48-1146 207 48-2048 48-1048 48-1147 217 48-2049 48-1048 48-1149		48-3050	48-1150	48-1050	48-2050	29mm x 26T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic 48-2039 48-1039 48-1139 17 48-2040 48-1040 48-1140 17 48-2041 48-1041 48-1141 17 48-2042 48-1042 48-1142 237 48-2043 48-1043 48-1143 17 48-2044 48-1043 48-1143 17 48-2045 48-1045 48-1145 207 48-2046 48-1046 48-1146 48-2047 48-1048 48-1148		48-3049	48-1149	48-1049	48-2049	24.5mm x 21T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic 1 48-2039 48-1039 197 48-2040 48-1040 197 48-2041 48-1040 197 48-2041 48-1041 197 48-2042 48-1041 198 48-2042 48-1141 199 48-2043 48-1042 199 48-2043 48-1043 199 48-2043 48-1043 199 48-2043 48-1043 199 48-2043 48-1043 199 48-2043 48-1043 199 48-2043 48-1043 199 48-2043 48-1043 199 48-2043 48-1043 199 48-2044 48-1043 199 48-2045 48-1143 199 48-2045 48-1144 199 48-2045 48-1144 199 48-2045 <		48-3048	48-1148	48-1048	48-2048	35mm x 26T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic 4 Paddle 6 Paddle 1 48-2039 48-1039 19T 48-2040 48-1040 48-2041 48-1041 48-1140 1 48-2042 48-1042 48-1141 23T 48-2043 48-1043 48-1143 1 48-2044 48-1043 48-1143 1 48-2045 48-1046 48-1146 48-2046 48-1046 48-1146		48-3047	48-1147	48-1047	48-2047	17.3mm x 20T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic 4 Paddle 6 Paddle 1 48-2039 48-1039 197 48-2040 48-1040 48-1140 48-1140 48-2041 48-1041 48-2042 48-1042 48-2043 48-1043 48-2044 48-1043 48-2045 48-1045 48-2045 48-1045		48-3046	48-1146	48-1046	48-2046	20mm x 19T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic Geametallic 1 48-2039 48-1039 48-1139 197 48-2040 48-1040 48-1140 1 48-2041 48-1041 48-1141 1 48-2042 48-1042 48-1142 237 48-2043 48-1043 48-1143 48-2044 48-1044 48-1144 48-1144		48-3045	48-1145	48-1045	48-2045	28mm x 25T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic H 4 Paddle 6 Paddle 1 48-2039 48-1039 48-1139 19T 48-2040 48-1040 48-1140 1 48-2041 48-1041 48-1141 1 48-2042 48-1042 48-1143 23T 48-2043 48-1043 48-1143		48-3044	48-1144	48-1044	48-2044	29mm x 22T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic 4 Paddle 6 Paddle T 48-2039 48-1039 19T 48-2040 48-1040 48-2041 48-1041 48-1141 T 48-2042 48-1042 48-1142		48-3043	48-1143	48-1043	48-2043	25.4mm x 23T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic 6 Paddle T 48-2039 48-1039 48-1139 19T 48-2040 48-1040 48-1140 T 48-2041 48-1041 48-1141		48-3042	48-1142	48-1042	48-2042	19mm x 17T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic 6 Paddle T 48-2039 48-1039 48-1139 19T 48-2040 48-1040 48-1140		48-3041	48-1141	48-1041	48-2041	13/8" x 10T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic h 4 Paddle 6 Paddle T 48-2039 48-1039 48-1139		48-3040	48-1140	48-1040	48-2040	22.5mm x 19T
Hub Plate Geared Geared Sintered Hub Plate Hub Plate Cerametallic Cerametallic Cerametallic 6 Paddle		48-3039	48-1139	48-1039	48-2039	28mm x 20T
Hub PlateGearedGearedSinteredHub PlateHub PlateCerametallicCerametallicA Paddle6 Paddle						
Hub PlateGearedGearedSinteredHub PlateHub PlateCerametallicCerametallic			6 Paddle	4 Paddle		
Hub PlateGearedGearedSinteredHub PlateHub Plate		Organic	Cerametallic	Cerametallic		
Geared Geared		Hub Plate	Hub Plate	Hub Plate	Sintered	Spline Data
		Geared	Geared	Geared	Hub Plate	



200mm Ø 'Helix' Racing Clutch Range



Series Part No. 68-110 & 68-120

Cover Assembly is of a lug drive configuration one piece aluminium alloy. This design allows the dust from the friction material to escape and reduces the heat build up. These are used with either cerametallic or organic friction faced drive plates in either single or twin plate formats



Series Part No. 70-1000

A sprung hub centre drive plate with heavy duty metal backed organic linings to give a more progressive engagement of the clutch.

Only available as a single plate clutch and must be used with the 68-110 series of clutch cover assemblies.

Can be used for road or light competition applications



Series Part No 71-1000

A rigid hub drive plate with heavy duty metal backed organic linings. Normally used with the twin plate clutch. 68-120 series of clutch cover assemblies

Can be used for road or light competition applications.



Series Part No. 77-1100

4 paddle sprung centre cerametallic drive plate. Single plate configuration
This design is mainly used for rallying or racing where the damper springs provide
a cushion to the impact of clutch engagement on the driveline components.
Can only be used with the 68-110 series of clutch cover assemblies



Series Part No. 77-1100

6 paddle sprung centre cerametallic drive plate. Single plate configuration Can only be used with the 68-110 series of clutch cover assemblies.





Series Part No. 78-1001

4 paddle rigid hub cerametallic drive plate. Single or twin plate format Cerametallic drive plates have cerametallic segments riveted onto a steel back plate these give the clutch a higher torque capacity than when using an organic faced drive plate.

This design is mainly used for rallying or racing, especially endurance



Series Part No. 78-1101

6 paddle rigid hub cerametallic drive plate. Single or twin plate format



Series Part No 68-110TP & 68-120TP

Cover assembly design & dimensions as per 68-110 & 68-120 series but fitted with a release plate to facilitate the use of a flat face release bearing.



Series Part No 47-1001 & 47-1090

Cerametallic 4 paddle drive plates with a main geared hub (47-1001) and floating hub drive plate (47-1090)





Series Part No 47-1101 & 47-1091

Cerametallic 6 paddle drive plates with a main geared hub (47-1101) and floating hub drive plate (47-1091)



Series Part No 47-2001 & 47-1092

Organic drive plates with a main geared hub (47-2001) and floating hub drive plate $\,$

(47-1092) shown as a set



68-110

Ø200mm, Single Drive Plate



Cover	Torque Capacity	
68-110R	348Nm [256lb/ft]	Cerametallic Drive Plate
68-110G	514Nm [378lb/ft]	Cerametallic Drive Plate
68-110R	292Nm [215lb/ft]	Organic Drive Plate
68-110G	350Nm [257lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
68-110R	335Kg	
68-110G	358Kg	7.50mm

Set-Up Height (New)

68-110R 29.55mm 68-110G 29.30mm

Set-Up Height (Worn)

68-110R 33.40mm 68-110G 33.20mm

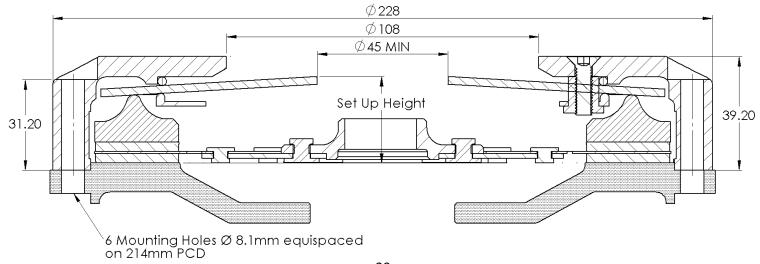
Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	71-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.00 Kg
Organic (Sprung)	70-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.30 Kg
4 Paddle (Rigid)	78-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.85 Kg
4 Paddle (Sprung)	77-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.40 Kg
6 Paddle (Rigid)	78-1100	7.20 mm	6.30 mm	[See chart for spline details]	4.15 Kg
6 Paddle (Sprung)	77-1100	7.20 mm	6.30 mm	[See chart for spline details]	4.60 Kg

Other configurations available see index.

Spare Parts		Applications	
Wear Clips Pressure Plate Push off Springs (3)	184-61B 200-12 68-POSA	Organic Drive Plate Rigid Hub Organic Drive Plate Sprung Hub Paddle Rigid Hub Paddle Sprung Hub	Road Road Race Race/Rally

Release Bearing: Must have curved face with a fulcrum point of between 52mm to 58mm.





68-110c

Ø200mm, Single Drive PlateCurly Tip Diaphragm Spring



Cover	Torque Capacity	
68-110Rc	348Nm [256lb/ft]	Cerametallic Drive Plate
68-110Gc	514Nm [378lb/ft]	Cerametallic Drive Plate
68-110Rc	292Nm [215lb/ft]	Organic Drive Plate
68-110Gc	350Nm [257lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
68-110Rc	335Kg	
68-110Gc	358Kg	7.50mm

Set-Up Height (New)

68-110Rc 32.55mm 68-110Gc 32.30mm

Set-Up Height (Worn)

68-110Rc 36.40mm 68-110Gc 36.20mm

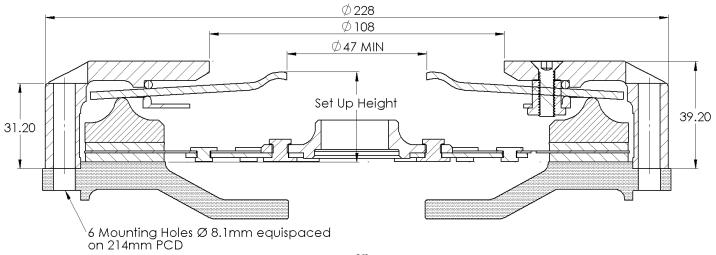
Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	71-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.00 Kg
Organic (Sprung)	70-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.30 Kg
4 Paddle (Rigid)	78-1000	7.20 mm	6.30 mm	[See chart for spline details]	3.85 Kg
4 Paddle (Sprung)	77-1000	7.20 mm	6.30 mm	[See chart for spline details]	4.40 Kg
6 Paddle (Rigid)	78-1100	7.20 mm	6.30 mm	[See chart for spline details]	4.15 Kg
6 Paddle (Sprung)	77-1100	7.20 mm	6.30 mm	[See chart for spline details]	4.60 Kg

Other configurations available see index.

Spare Parts		Applications	
Wear Clips Pressure Plate Push off Springs (3)	184-61B 200-12 68-POSA	Organic Drive Plate Rigid Hub Organic Drive Plate Sprung Hub Paddle Rigid Hub Paddle Sprung Hub	Road Road Race Race/Rally

Release Bearing: Must have flat face with a fulcrum point of between 52mm to 58mm.





68-120

Ø200mm, Twin Drive Plate



Cover	Torque Capacity	
68-120R	499Nm [367lb/ft]	Cerametallic Drive Plate
68-120G	740Nm [544lb/ft]	Cerametallic Drive Plate
68-120R	413Nm [304lb/ft]	Organic Drive Plate
68-120G	611Nm [449lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
68-120R	335Kg	
68-120G	358Kg	7.50mm

Set-Up Height (New)

68-120R 41.60mm 68-120G 41.70mm

Set-Up Height (Worn)

68-120R 45.50mm 68-120G 45.65mm

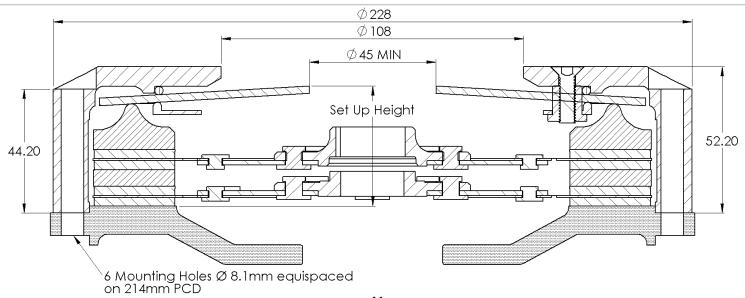
Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	71-1000	7.20 mm	6.80 mm	[See chart for spline details]	5.35 Kg
4 Paddle (Rigid)	78-1000	7.20 mm	6.80 mm	[See chart for spline details]	5.15 Kg
6 Paddle (Rigid)	78-1100	7.20 mm	6.80 mm	[See chart for spline details]	6.55 Kg

Other configurations available see index.

Spare Parts Applications Wear Clips Organic Drive Plate Rigid Hub 184-61D Road Pressure Plate 200-13 Paddle Rigid Hub Race Interplate 200-11 Push off Springs (3) 68-POSA Push off Springs (3) 68-POSB

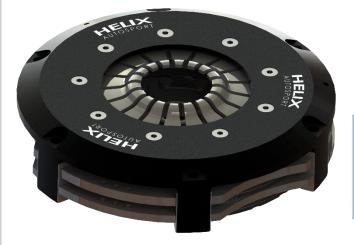
Release Bearing: Must have curved face with a fulcrum point of between 52mm to 58mm.





68-120c

Ø200mm, Twin Drive PlateCurly Tip Diaphragm Spring



Cover	Torque Capacity	
68-120Rc	499Nm [367lb/ft]	Cerametallic Drive Plate
68-120Gc	740Nm [544lb/ft]	Cerametallic Drive Plate
68-120Rc	413Nm [304lb/ft]	Organic Drive Plate
68-120Gc	611Nm [449lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
68-120Rc	335Kg	
68-120Gc	358Kg	7.50mm

Set-Up Height (New)

68-120Rc 44.60mm 68-120Gc 44.70mm

Set-Up Height (Worn)

68-120Rc 48.50mm 68-120Gc 48.65mm

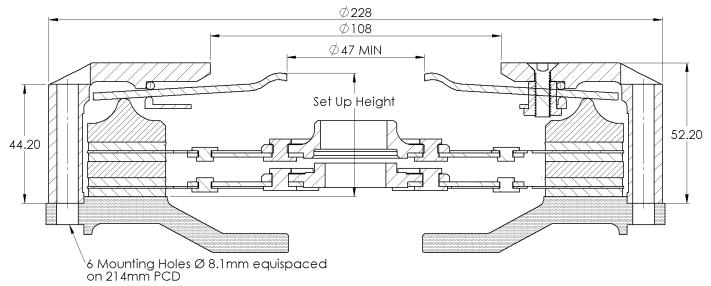
Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	71-1000	7.20 mm	6.80 mm	[See chart for spline details]	5.35 Kg
4 Paddle (Rigid)	78-1000	7.20 mm	6.80 mm	[See chart for spline details]	5.15 Kg
6 Paddle (Rigid)	78-1100	7.20 mm	6.80 mm	[See chart for spline details]	6.55 Kg

Other configurations available see index.

Spare Parts Applications Wear Clips Organic Drive Plate Rigid Hub 184-61D Road Pressure Plate 200-13 Paddle Rigid Hub Race Interplate 200-11 Push off Springs (3) 68-POSA Push off Springs (3) 68-POSB

Release Bearing: Must have flat face with a fulcrum point of between 52mm to 58mm.







BMW	78-1135	78-1035 78-1038			71-1035		35mm x 10T
Volvo	78-1133	78-1033	77-1133	77-1033	71-1033	70-1033	21.8mm x 20T
Volvo	78-1132	78-1032	77-1132	77-1032	71-1032	70-1032	25mm x 22T
Subaru	78-1131	78-1031	77-1131	77-1031	71-1031	70-1031	25.2mm x 24T
Alfa Romeo, Talbot & Triumph.	78-1130	78-1030	77-1130	77-1030	71-1030	70-1030	1" x 10T
Mercedes	49-1029	78-1029			71-1029		28.7mm x 26T
Nissan & Skoda	78-1128	78-1028	77-1128	77-1028	71-1028	70-1028	20mm x 18T
GM (USA)	78-1127	78-1027			71-1027		1 5/32" x 26T
Ford (USA)	78-1126	78-1026			71-1026		1 1/16" x 10T
Honda	78-1125	78-1025	77-1125	77-1025	71-1025	70-1025	25.9mm x 24T
Honda & Rover	78-1124	78-1024	77-1124	77-1024	71-1024	70-1024	25.4mm x 24T
Rover	78-1123	78-1023	77-1123	77-1023	71-1023	70-1023	7/8" x 10T
Honda & Rover	78-1122	78-1022	77-1122	77-1022	71-1022	70-1022	22mm x 20T
Opel & Vauxhall	78-1121	78-1021	77-1121	77-1021	71-1021	70-1021	19mm x 14T
Renault	78-1120	78-1020	77-1120	77-1020	71-1020	70-1020	22mm x 26T
Suzuki	78-1119	78-1019	77-1119	77-1019	71-1019	70-1019	19.3mm x 18T
Peugeot & Renault	78-1118	78-1018			71-1018		29mm x 10T
Audi & Volkswagen	78-1117	78-1017	77-1117	77-1017	71-1017	70-1017	22.1mm x 28T
Jaguar,GM(USA) & Rover	78-1116	78-1016			71-1016		1 1/8" x 10T
Audi & Volkswagen	78-1115	78-1015	77-1115	77-1015	71-1015	70-1015	24.2 x 23T
Aston Martin,Ferrari & Triumph	78-1114	78-1014			71-1014		1 1/4" x 10T
Alfa Romeo	78-1113	78-1013	77-1113	77-1013	71-1013	70-1013	22mm x 19T
Opel,Vauxhall & Volkswagen	78-1112	78-1012	77-1112	77-1012	71-1012	70-1012	20.4mm x 24T
Ford & Fiat	78-1111	78-1011	77-1111	77-1011	71-1011	70-1011	20mm x 17T
Peugeot	78-1110	78-1010	77-1110	77-1010	71-1010	70-1010	21mm x 18T
BMW, Ford & Mercedes	78-1109	78-1009			71-1009		29mm x 10T
BMW Mini,Opel & Vauxhall	78-1108	78-1008	77-1108	77-1008	71-1008	70-1008	25mm x 14T
Toyota	78-1107	78-1007	77-1107	77-1007	71-1007	70-1007	24mm x 21T
Renault	78-1106	78-1006	77-1106	77-1006	71-1006	70-1006	24mm x 21T
Nissan	78-1105	78-1005	77-1105	77-1005	71-1005	70-1005	25.6mm x 24T
Toyota	78-1104	78-1004			71-1004		29mm x 21T
Mazda	78-1103	78-1003	77-1103	77-1003	71-1003	70-1003	24.3mm x 22T
Ford, Fiat,Mitsubishi & Porsche	78-1102	78-1002	77-1102	77-1002	71-1002	70-1002	22.5mm x 20T
Ford,Mitsubishi,MG & Porsche	78-1101	78-1001	77-1101	77-1001	71-1001	70-1001	25.4mm x 23T
	Rigid Hub	Rigid Hub	Sprung Hub	Sprung Hub			Ø Teeth
	Cerametallic	Cerametallic	Cerametallic	Cerametallic	Rigid	Sprung Hub	
Application	6 Paddle	4 Paddle	6 Paddle	4 Paddle	Organic	Organic	Spline Data



200mm Ø Cerametallic & Organic Drive Plate Hub Spline Details.

27.2 mm x 10T	33mm x 30T	38mm x 10T	34mm x 6T	25mm x 6T	7/8" x 6T	24.3mm x 21T	1" x 6T	29mm x 26T	24.5mm x 21T	35mm x 26T	17.3mm x 20T	20mm x 19T	28mm x 25T	29mm x 22T	25.4mm x 23T	19mm x 17T	13/8" x 10T	22.5mm x 19T	28mm x 20T	Ø Teeth		Spline Data	
70-1058	70-1057	70-1056	70-1055	70-1054	70-1053	70-1052	70-1051		70-1049		70-1047	70-1046			70-1043	70-1042		70-1040	70-1039			Organic Sprung Hub)
71-1058	71-1057	71-1056	71-1055	71-1054	71-1053	71-1052	71-1051	71-1050	71-1049	71-1048	71-1047	71-1046	71-1045	71-1044	71-1043	71-1042	71-1041	71-1040	71-1039		Rigid	Organic	
77-1058	77-1057	77-1056	77-1055	77-1054	77-1053	77-1052	77-1051		77-1049		77-1047	77-1046			77-1043	77-1042		77-1040	77-1039	Sprung Hub	Cerametallic	4 Paddle	
77-1158	77-1157	77-1156	77-1155	77-1153	77.1153	77-1152	77-1151		77-1149		77-1147	77-1146			77-1143	77-1142		77-1140	77-1139	Sprung Hub	Cerametallic	6 Paddle	
78-1058	78-1057	78-1056	78-1055	78-1054	78-1053	78-1052	78-1051	78-1050	78-1049	78-1048	78-1047	78-1046	78-1045	78-1044	78-1043	78-1042	78-1041	78-1040	78-1039	Rigid Hub	Cerametallic	4 Paddle	
78-1158	78-1157	78-1156	78-1155	78-1154	78-1153	78-1152	78-1151	78-1150	78-1149	78-1148	78-1147	78-1146	78-1145	78-1144	78-1143	78-1142	78-1141	78-1140	78-1139	Rigid Hub	Cerametallic	6 Paddle	
Lancia	Ferrari flywheel HF 9426	Lancia	OM 1929		Alfa Romeo	Lotus	Ferrari	Audi, Volkswagen	Renault	BMW	Fiat, Renault	Honda	Ferrari	BMW	Sadev Gearbox spline	SAAB	Ferrari	Toyota	Toyota			Application	



200mm Ø Cerametallic & Organic Drive Plate Hub Spline Details

28mm x 25T	35mm x 10T	21.8mm x 20T	25mm × 22T	25.2mm x 24T	1" x 10T	28.7mm x 26T	20mm x 18T	15/32" x 26T	1 1/16" x 10T	25.9mm x 24T	25.4mm x 24T	7/8" x 10T	22mm x 20T	19mm x 14T	22mm x 26T	19.3mm x 18T	29mm x 10T	22.1mm x 28T	11/8" x 10T	24.2 x 23T	11/4" x 10T	22mm x 19T	20.4mm x 24T	20mm x 17T	21mm x 18T	29mm x 10T	25mm x 14T	24mm x 21T	24mm x 21T	25.6mm x 24T	29mm x 21T	24.3mm x 22T	22.5mm x 20T	25.4mm x 23T	Ø Teeth		Spline Data			
47-1038	47-1035	47-1033	47-1032	47-1031	47-1030	47-1029	47-1028	47-1027	47-1026	47-1025	47-1024	47-1023	47-1022	47-1021	47-1020	47-1019	47-1018	47-1017	47-1016	47-1015	47-1014	47-1013	47-1012	47-1011	47-1010	47-1009	47-1008	47-1007	47-1006	47-1005	47-1004	47-1003	47-1002	47-1001		4 Paddle	Cerametallic	Hub Plate	Geared	
47-1138	47-1135	47-1133	47-1132	47-1131	47-1130	47-1128	47-1128	47-1127	47-1126	47-1125	47-1124	47-1123	47-1122	47-1121	47-1120	47-1119	47-1118	47-1117	47-1116	47-1115	47-1114	47-1113	47-1112	47-1111	47-1110	47-1109	47-1108	47-1107	47-1106	47-1105	47-1104	47-1103	47-1102	47-1101	6 Paddle	Cerametallic	Hub Plate	Geared		(
47-2038	47-2035	47-2033	47-2032	47-2031	47-2030	47-2029	47-2028	47-2027	47-2026	47-2025	47-2024	47-2023	47-2022	47-2021	47-2020	47-2019	47-2018	47-2017	47-2016	47-2015	47-2014	47-2013	47-2012	47-2011	47-2010	47-2009	47-2008	47-2007	47-2006	47-2005	47-2004	47-2003	47-2002	47-2001		Organic	Hub Plate	Geared		•
Lotus & Vauxhall	BMW	Volvo	Volvo	Subaru	Alfa Romeo, Talbot & Triumph.	Mercedes	Nissan & Skoda	GM (USA)	Ford (USA)	Honda	Honda & Rover	Austin Healey,Hillman,MG & Rover	Honda & Rover	Opel & Vauxhall	Renault	Suzuki	Peugeot & Renault	Audi & Volkswagen	Jaguar,GM(USA) & Rover	Audi & Volkswagen	Aston Martin, Ferrari & Triumph	Alfa Romeo	Opel, Vauxhall & Volkswagen	Ford & Fiat	Peugeot	BMW, Ford & Mercedes	BMW Mini,Opel & Vauxhall	Toyota	Renault	Nissan	Toyota	Mazda	Ford, Fiat, Mitsubishi & Porsche	Ford,Mitsubishi,MG & Porsche			Application			



200mm Ø Cerametallic & Organic Drive Plate Hub Spline Details.

Floating Plate	Geared	27.2mm x 10T	33mm x 30T	38mm x 10T	34mm x 6T	25mm x 6T	7/8" x 6T	24.3mm x 21T	1" x 6T	29mm x 26T	24.5mm x 21T	35mm x 26T	17.3mm x 20T	20mm x 19T	28mm x 25T	29mm x 22T	25.4mm x 23T	19mm x 17T	13/8" x 10T	22.5mm x 19T	28mm x 20T	Ø Teeth		Spline Data			
	47-1090	47-1058	47-1057	47-1056	47-1055	47-1054	47-1053	47-1052	47-1051	47-1050	47-1049	47-1048	47-1047	47-1046	47-1045	47-1044	47-1043	47-1042	47-1041	47-1040	47-1039		4 Paddle	Cerametallic	Hub Plate	Geared	
	47-1091	47-1158	47-1157	47-1156	47-1155	47-1154	47-1153	47-1152	47-1151	47-1150	47-1149	47-1148	47-1147	47-1146	47-1145	47-1144	47-1143	47-1142	47-1141	47-1140	47-1139	6 Paddle	Cerametallic	Hub Plate	Geared		•
	47-1092	47-2058	47-2057	47-2056	47-2055	47-2054	47-2053	47-2052	47-2051	47-2050	47-2049	47-2048	47-2047	47-2046	47-2045	47-2044	47-2043	47-2042	47-2041	47-2040	47-2039		Organic	Hub Plate	Geared		
	Geared Floating Plate																										•
		Lancia	Ferrari flywheel HF 9426	Lancia	OM 1929		Alfa Romeo	Lotus	Ferrari	Audi, Volkswagen	Renault	BMW	Fiat, Renault	Honda	Ferrari	BMW	Sadev Gearbox spline	SAAB	Ferrari	Toyota	Toyota			Application			



215mm Ø 'HELIX' Racing Clutch Range



Series Part No. 69-110 & 69-120

Cover Assembly is of a lug drive configuration one piece aluminium alloy This design alloys the dust from the friction material to escape and reduces the heat build up. These are used with either cerametallic or organic friction faced drive plates in either single or twin plate formats.



Series Part No. 70-2000

A sprung hub centre drive plate with heavy duty metal backed organic linings to give a more progressive engagement of the clutch.

Only available as a single plate clutch and must be used with the 69-110 series of clutch cover assemblies.



Series Part No. 71-2000 & 71-3000

A rigid hub drive plate with heavy duty metal backed organic linings Normally used with the twin plate clutch for a more progressive operation

Series 71-2000 for single plate clutch. Thickness 8.40mm Series 71-3000 foo twin plate clutch. Thickness 7.20mm



Series Part No. 77-2000

4 paddle sprung centre cerametallic drive plate, single plate configuration.

This design is mainly used for rallying and racing where the damper springs provide a cushion to the impact of clutch engagement on the driveline components.

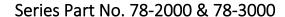
Can only be used with the 69-110 series of clutch cover assemblies.



Series Part No. 77-2100

6 paddle sprung centre cerametallic drive plate. Single plate configuration. Can only be used with the 69-110 series of clutch cover assemblies.







4 paddle rigid hub cerametallic drive plate. Single or twin plate format. Cerametallic drive plates have cerametallic segments riveted onto a steel back plate

these give the clutch a higher torque capacity than when using an organic faced drive plate.

This design is mainly for rallying or racing, especially endurance.

Series 78-2000 for single plate clutch. Thickness 8.40mm Series 78-3000 for twin plate clutch. Thickness 7.20mm



Series Part No. 78-2100 & 78-3100

6 paddle rigid hub cerametallic drive plate. Single or twin plate format.

Series 78-2100 for a single plate clutch. Thickness 8.40mm Series 78-3100 for a twin plate clutch. Thickness 7.20mm



Series Part No 69-110TP & 69-120TP

Cover assembly design & dimensions are as per 69-110 & 69-120 but fitted with a release plate to facilitate the use of a flat face release bearing



Series Part No 46-1001 & 46-1090

Cerametallic 4 paddle drive plates with a main geared hub (46-1001) and floating hub drive plate (46-1090)





Series Part No 46-1101 & 46-1091

Cerametallic 6 paddle drive plates with a main geared hub (46-1101) and floating hub drive plate (46-1091)



Series Part No 46-2001 & 46-1092

Organic drive plates with a main geared hub (46-2001) and floating hub drive plate

(46-1092) shown as a set



69-110

Ø215mm, Single Drive Plate



Cover	Torque Capacity	
69-110G	462Nm [340lb/ft]	Cerametallic Drive Plate
69-110Y	606Nm [446lb/ft]	Cerametallic Drive Plate
69-110G	371Nm [273lb/ft]	Organic Drive Plate
69-110Y	496Nm [365lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
69-110G	290Kg	
69-110Y	330Kg	8.00mm

Set-Up Height (New)

69-110G 33.00mm 69-110Y 32.30mm

Set-Up Height (Worn)

69-110R 36.90mm 69-110G 36.20mm

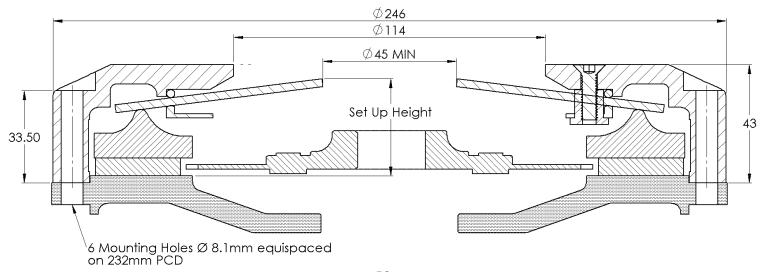
Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	71-2000	8.40mm	7.40mm	[See chart for spline details]	4.60 Kg
Organic (Sprung)	70-2000	8.40mm	7.40mm	[See chart for spline details]	5.10 Kg
4 Paddle (Rigid)	78-2000	8.40mm	7.40mm	[See chart for spline details]	4.70 Kg
4 Paddle (Sprung)	77-2000	8.40mm	7.40mm	[See chart for spline details]	5.30 Kg
6 Paddle (Rigid)	78-2100	8.40mm	7.40mm	[See chart for spline details]	5.00 Kg
6 Paddle (Sprung)	77-2100	8.40mm	7.40mm	[See chart for spline details]	5.80 Kg

Other configurations available see index.

Spare Parts		Applications	
Wear Clips	215-61A	Organic Drive Plate Rigid Hub	Road
Pressure Plate	215-15	Organic Drive Plate Sprung Hub	Road
Push off Springs (3)	215-POSB	Paddle Rigid Hub	Race
		Paddle Sprung Hub	Race/Rally
	1.6		

Release Bearing: Must have curved face with a fulcrum point of between 52mm to 58mm.





69-110c

Ø215mm, Single Drive PlateCurly Tip Diaphragm Spring



Cover	Torque Capacity	
69-110Gc	462Nm [340lb/ft]	Cerametallic Drive Plate
69-110Yc	606Nm [446lb/ft]	Cerametallic Drive Plate
69-110Gc	371Nm [273lb/ft]	Organic Drive Plate
69-110Yc	496Nm [365lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
69-110Gc	290Kg	
69-110Yc	330Kg	8.00mm

Set-Up Height (New)

69-110Gc 36.00mm 69-110Yc 35.30mm

Set-Up Height (Worn)

69-110Rc 39.90mm 69-110Gc 39.20mm

Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	71-2000	8.40mm	7.40mm	[See chart for spline details]	4.60 Kg
Organic (Sprung)	70-2000	8.40mm	7.40mm	[See chart for spline details]	5.10 Kg
4 Paddle (Rigid)	78-2000	8.40mm	7.40mm	[See chart for spline details]	4.70 Kg
4 Paddle (Sprung)	77-2000	8.40mm	7.40mm	[See chart for spline details]	5.30 Kg
6 Paddle (Rigid)	78-2100	8.40mm	7.40mm	[See chart for spline details]	5.00 Kg
6 Paddle (Sprung)	77-2100	8.40mm	7.40mm	[See chart for spline details]	5.80 Kg

Other configurations available see index.

Spare Parts		Applications	
Wear Clips	215-61A	Organic Drive Plate Rigid Hub	Road
Pressure Plate	215-15	Organic Drive Plate Sprung Hub	Road
Push off Springs (3)	215-POSB	Paddle Rigid Hub	Race
		Paddle Sprung Hub	Race/Rally
Release Bearing: Must have	ve flat face with a fulcru	ım point of between 52mm to 58mm.	·

Ø 246
Ø 114

48 MIN

Set Up Height

6 Mounting Holes Ø 8.1mm equispaced on 232mm PCD



69-120

Ø215mm, Twin Drive Plate



Cover	Torque Capacity	
69-120G	578Nm [425lb/ft]	Cerametallic Drive Plate
69-120Y	868Nm [638lb/ft]	Cerametallic Drive Plate
69-120G	486Nm [357lb/ft]	Organic Drive Plate
69-120Y	695Nm [511lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
69-120G	290Kg	
69-120Y	330Kg	8.00mm

Set-Up Height (New)69-120G 47.30mm 69-120Y 47.00mm

Set-Up Height (Worn) 69-120G 51.60mm 69-120Y 51.10mm

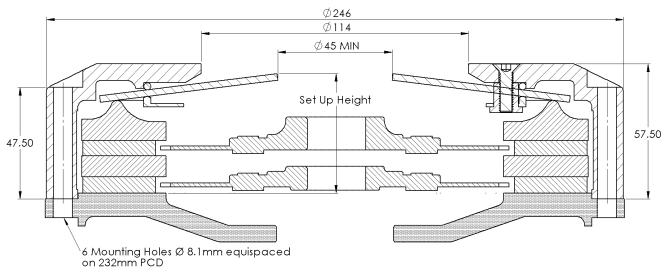
Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	71-3000	7.20 mm	6.80 mm	[See chart for spline details]	7.10 Kg
4 Paddle (Rigid)	78-3000	7.20 mm	6.80 mm	[See chart for spline details]	7.20 Kg
6 Paddle (Rigid)	78-3100	7.20 mm	6.80 mm	[See chart for spline details]	7.80 Kg

Other configurations available see index.

Spare Parts		Applications	
Wear Clips	215-61B	Organic Drive Plate Rigid Hub	Road
Pressure Plate	215-16	Paddle Rigid Hub	Race
Interplate	215-11		
Push off Springs (3)	215-POSA		
Push off Springs (3)	215-POSB		

Release Bearing: Must have curved face with a fulcrum point of between 52mm to 58mm.





69-120c

Ø215mm, Twin Drive Plate Curly Tip Diaphragm Spring



Cover	Torque Capacity	
69-120Gc	578Nm [425lb/ft]	Cerametallic Drive Plate
69-120Yc	868Nm [638lb/ft]	Cerametallic Drive Plate
69-120Gc	486Nm [357lb/ft]	Organic Drive Plate
69-120Yc	695Nm [511lb/ft]	Organic Drive Plate

Cover	Release Load	Release Bearing Travel (Max)
69-120Gc	290Kg	
69-120Yc	330Kg	8.00mm

Set-Up Height (New)

69-120Gc 50.30mm 69-120Yc 50.00mm

Set-Up Height (Worn)

69-120Gc 54.60mm 69-120Yc 54.10mm

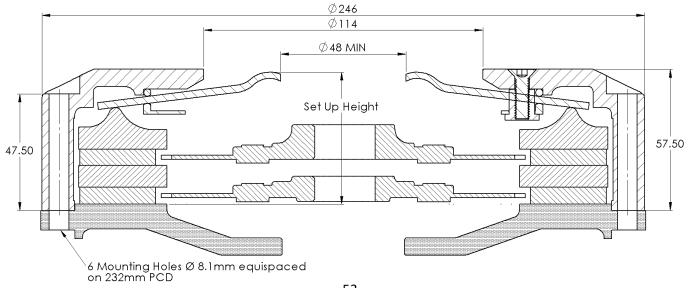
Drive Plates

	Series Part No	Thickness New [Nom]	Thickness Worn [Min]		Weight
Organic (Rigid)	71-3000	7.20 mm	6.80 mm	[See chart for spline details]	7.10 Kg
4 Paddle (Rigid)	78-3000	7.20 mm	6.80 mm	[See chart for spline details]	7.20 Kg
6 Paddle (Rigid)	78-3100	7.20 mm	6.80 mm	[See chart for spline details]	7.80 Kg

Other configurations available see index.

Spare Parts		Applications	
Wear Clips Pressure Plate Interplate	215-61B 215-16 215-11	Organic Drive Plate Rigid Hub Paddle Rigid Hub	Road Race
Push off Springs (3) Push off Springs (3)	215-POSA 215-POSB		

Release Bearing: Must have flat face with a fulcrum point of between 52mm to 58mm.





215mm Ø Cerametallic & Organic Drive Plate Hub Spline Details

Lotus & Vauxhall	/8-3138	/8-3038	/8-2138	/8-2038	//-2138	//-2038	/1-3038	/1-2038	/1-2038	28mm x 251
BMW	78-3135	78-3035	78-2135	78-2035			71-3035	71-2035		35mm x 10T
Volvo	78-3133	78-3033	78-2133	78-2033	77-2134	77-2033	71-3033	71-2033	70-2033	21.8mm x 20T
Volvo	78-3132	78-3032	78-2132	78-2032	77-2133	77-2032	71-3032	71-2032	70-2032	25mm x 22T
Subaru	78-3131	78-3031	78-2131	78-2031	77-2132	77-2031	71-3031	71-2031	70-2031	25.2mm x 24T
Alfa Romeo, Talbot & Triumph.	78-3130	78-3030	78-2130	78-2030	77-2131	77-2030	71-3030	71-2030	70-2030	1" x 10T
Mercedes	78-3129	78-3029	78-2129	78-2029	77-2129	77-2029	71-3029	71-2029	70-2029	28.7mm x 26T
Nissan & Skoda	78-3128	78-3028	78-2128	78-2028	77-2128	77-2028	71-3028	71-2028	70-2028	20mm x 18T
GM (USA)	78-3127	78-3027	78-2127	78-2027	77-2127	77-2027	71-3027	71-2027	70-2027	15/32" x 26T
Ford (USA)	78-3126	78-3026	78-2126	78-2026	77-2126	77-2026	71-3026	71-2026	70-2026	1 1/16" x 10T
Honda	78-3125	78-3025	78-2125	78-2025	77-2125	77-2025	71-3025	71-2025	70-2025	25.9mm x 24T
Honda & Rover	78-3124	78-3024	78-2124	78-2024	77-2124	77-2024	71-3024	71-2024	70-2024	25.4mm x 24T
Austin Healey,Hillman,MG & Rover	78-3123	78-3023	78-2123	78-2023	77-2123	77-2023	71-3023	71-2023	70-2023	7/8" x 10T
Honda & Rover	78-3122	78-3022	78-2122	78-2022	77-2122	77-2022	71-3022	71-2022	70-2022	22mm x 20T
Opel & Vauxhall	78-3121	78-3021	78-2121	78-2021	77-2121	77-2021	71-3021	71-2021	70-2021	19mm x 14T
Renault	78-3120	78-3020	78-2120	78-2020	77-2120	77-2020	71-3020	71-2020	70-2020	22mm x 26T
Suzuki	78-3119	78-3019	78-2119	78-2019	77-2119	77-2019	71-3019	71-2019	70-2019	19.3mm x 18T
Peugeot & Renault	78-3118	78-3018	78-2118	78-2018	77-2118	77-2018	71-3018	71-2018	70-2018	29mm x 10T
Audi & Volkswagen	78-3117	78-3017	78-2117	78-2017	77-2117	77-2017	71-3017	71-2017	70-2017	22.1mm x 28T
Jaguar,GM(USA) & Rover	78-3116	78-3016	78-2116	78-2016	77-2116	77-2016	71-3016	71-2016	70-2016	11/8"×10T
Audi & Volkswagen	78-3115	78-3015	78-2115	78-2015	77-2115	77-2015	71-3015	71-2015	70-2015	24.2 x 23T
Aston Martin, Ferrari & Triumph	78-3114	78-3014	78-2114	78-2014	77-2114	77-2014	71-3014	71-2014	70-2014	11/4"×10T
Alfa Romeo	78-3113	78-3013	78-2113	78-2013	77-2113	77-2013	71-3013	71-2013	70-2013	22mm x 19T
Opel, Vauxhall & Volkswagen	78-3112	78-3012	78-2112	78-2012	77-2112	77-2012	71-3012	71-2012	70-2012	20.4mm x 24T
Ford & Fiat	78-3111	78-3011	78-2111	78-2011	77-2111	77-2011	71-3011	71-2011	70-2011	20mm x 17T
Peugeot	78-3110	78-3010	78-2110	78-2010	77-2110	77-2010	71-3010	71-2010	70-2010	21mm x 18T
BMW, Ford & Mercedes	78-3109	78-3009	78-2109	78-2009	77-2109	77-2009	71-3009	71-2009	70-2009	29mm x 10T
BMW Mini,Opel & Vauxhall	78-3108	78-3008	78-2108	78-2008	77-2108	77-2008	71-3008	71-2008	70-2008	25mm x 14T
Toyota	78-3107	78-3007	78-2107	78-2007	77-2107	77-2007	71-3007	71-2007	70-2007	24mm x 21T
Renault	78-3106	78-3006	78-2106	78-2006	77-2106	77-2006	71-3006	71-2006	70-2006	24mm x 21T
Nissan	78-3105	78-3005	78-2105	78-2005	77-2105	77-2005	71-3005	71-2005	70-2005	25.6mm x 24T
Toyota	78-3104	78-3004	78-2104	78-2004	77-2104	77-2004	71-3004	71-2004	70-2004	29mm x 21T
Mazda	78-3103	78-3003	78-2103	78-2003	77-2103	77-2003	71-3003	71-2003	70-2003	24.3mm x 22T
Ford, Fiat,Mitsubishi & Porsche	78-3102	78-3002	78-2102	78-2002	77-2102	77-2002	71-3002	71-2002	70-2002	22.5mm x 20T
Ford,Mitsubishi,MG & Porsche	78-3101	78-3001	78-2101	78-2001	77-2101	77-2001	71-3001	71-2001	70-2001	25.4mm x 23T
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	7 7 5 5 5	7 7 5 5 6	0 /	0 (0 1	0 4				
	Rigid Hub	Rigid Hub	Rigid Hub	Rigid Hub	Sprung Hub	Sprung Hub	7.2mm	8.4mm	8.4mm	
	Cerametallic	Cerametallic	Cerametallic	Cerametallic	Cerametallic	Cerametallic	Rigid	Rigid	Hub	
Application	6 Paddle	4 Paddle	6 Paddle	4 Paddle	6 Paddle	4 Paddle	Organic	Organic	Organic	Spline Data



215mm Ø Cerametallic & Organic Drive Plate Hub Spline Details.

Spline Data	Organic	Organic	Organic	4 Paddle	6 Paddle	4 Paddle	6 Paddle	4 Paddle	6 Paddle	Application
	Hub	Rigid	Rigid	Cerametallic	Cerametallic	Cerametallic	Cerametallic	Cerametallic	Cerametallic	
	8.4mm	8.4mm	7.2mm	Sprung Hub	Sprung Hub	Rigid Hub	Rigid Hub	Rigid Hub	Rigid Hub	
Ø Teeth				8.4mm	8.4mm	8.4mm	8.4mm	7.2mm	7.2mm	
28mm x 20T	71-2039	71-2039	71-3039	77-2039	77-2139	78-2039	78-2139	78-3039	78-3139	Toyota
22.5mm x 19T	70-2040	71-2040	71-3040	77-2040	77-2140	78-2040	78-2140	78-3040	78-3140	Toyota
13/8" x 10T		71-2041	71-3041			78-2041	78-2141	78-3041	78-3141	Ferrari
19mm x 17T	70-2042	71-2042	71-3042	77-2042	77-2142	78-2042	78-2142	78-3042	78-3142	SAAB
25.4mm x 23T	70-2043	71-2043	71-3043	77-2043	77-2143	78-2043	78-2143	78-3043	78-3143	Sadev Gearbox spline
29mm x 22T	70-2044	71-2044	71-3044	77-2044	77-2144	78-2044	78-2144	78-3044	78-3144	BMW
28mm x 25T	70-2045	71-2045	71-3045	77-2045	77-2145	78-2045	78-2145	78-3045	78-3145	Ferrari
20mm x 19T	70-2046	71-2046	71-3046	77-2046	77-2146	78-2046	78-2146	78-3046	78-3146	Honda
17.3mm x 20T	70-2047	71-2047	71-3047	77-2047	77-2147	78-2047	78-2147	78-3047	78-3147	Fiat, Renault
35mm x 26T	70-2048	71-2048	71-3048	77-2048	77-2148	78-2048	78-2148	78-3048	78-3148	BMW
24.5mm x21T	70-2049	71-2049	71-3049	77-2049	77-2149	78-2049	78-2149	78-3049	78-3149	Renault
29mm x 26T	70-2050	71-2050	71-3050	77-2050	77-2150	78-2050	78-2150	78-3050	78-3150	Audi, Volkswagen
1" x 6T	70-2051	71-2051	71-3051	77-2051	77-2151	78-2051	78-2151	78-3051	78-3151	Ferrari
24.3mm x 21T	70-2052	71-2052	71-3052	77-2052	77-2152	78-2052	78-2152	78-3052	78-3152	Lotus
7/8" x 6T	70-2053	71-2053	71-3053	77-2053	77-2153	78-2053	78-2153	78-3053	78-3153	Alfa Romeo
25mm x 6T	70-2054									
34mm x 6T	70-2055	71-2055	71-3055	77-2055	77-2155	78-2055	78-2155	78-3055	71-3155	OM 1929
38mm x 10T	70-2056	71-2056	71-3056	77-2056	77-2156	78-2056	78-2156	78-3056	71-3156	Lancia
33mm x 30T	70-2057	71-2057	71-3057	77-2057	77-2157	78-2057	78-2157	78-3057	78-3157	Ferrari flywheel HF 9426
27.2mm x 10T	70-2058	71-2058	71-3058	77-2058	77-2158	78-2058	78-2158	78-3058	78-3158	Lancia



215mm Ø Cerametallic & Organic Drive Plate Hub Spline Details Geared Hub Plate Geared Geared

28mm x 25T	35mm x 10T	21.8mm x 20T	25mm x 22T	25.2mm x 24T	1" x 10T	28.7mm x 26T	20mm x 18T	1 5/32" x 26T	1 1/16" x 10T	25.9mm x 24T	25.4mm x 24T	7/8" x 10T	22mm x 20T	19mm x 14T	22mm x 26T	19.3mm x 18T	29mm x 10T	22.1mm x 28T	1 1/8" x 10T	24.2 x 23T	1 1/4" x 10T	22mm x 19T	20.4mm x 24T	20mm x 17T	21mm x 18T	29mm x 10T	25mm x 14T	24mm x 21T	24mm x 21T	25.6mm x 24T	29mm x 21T	24.3mm x 22T	22.5mm x 20T	25.4mm x 23T	, iceni		Spline Data	
46-1038	46-1035	46-1033	46-1032	46-1031	46-1030	46-1029	46-1028	46-1027	46-1026	46-1025	46-1024	46-1023	46-1022	46-1021	46-1020	46-1019	46-1018	46-1017	46-1016	46-1015	46-1014	46-1013	46-1012	46-1011	46-1010	46-1009	46-1008	46-1007	46-1006	46-1005	46-1004	46-1003	46-1002	46-1001		4 Paddle	Cerametallic	Hub Plate
46-1138	46-1135	46-1133	46-1132	46-1131	46-1130	46-1129	46-1128	46-1127	46-1126	46-1125	46-1124	46-1123	46-1122	46-1121	46-1120	46-1119	46-1118	46-1117	46-1116	46-1115	46-1114	46-1113	46-1112	46-1111	46-1110	46-1109	46-1108	46-1107	46-1106	46-1105	46-1104	46-1103	46-1102	46-1101	מחמות	Cerametallic	Hub Plate	Geared
46-2038	46-2035	46-2033	46-2032	46-2031	46-2030	46-2029	46-2028	46-2027	46-2026	46-2025	46-2024	46-2023	46-2022	46-2021	46-2020	46-2019	46-2018	46-2017	46-2016	46-2015	46-2014	46-2013	46-2012	46-2011	46-2010	46-2009	46-2008	46-2007	46-2006	46-2005	46-2004	46-2003	46-2002	46-2001		Organic	Hub Plate	Geared
																																					Thickness new 7.2mm all Drive Plates	
Lotus & Vauxhall	BMW	Volvo	Volvo	Subaru	Alfa Romeo, Talbot & Triumph.	Mercedes	Nissan & Skoda	GM (USA)	Ford (USA)	Honda	Honda & Rover	Rover	Honda & Rover	Opel & Vauxhall	Renault	Suzuki	Peugeot & Renault	Audi & Volkswagen	Jaguar,GM(USA) & Rover	Audi & Volkswagen	Aston Martin, Ferrari & Triumph	Alfa Romeo	Opel,Vauxhall & Volkswagen	Ford & Fiat	Peugeot	BMW, Ford & Mercedes	BMW Mini,Opel & Vauxhall	Toyota	Renault	Nissan	Toyota	Mazda	Ford, Fiat, Mitsubishi & Porsche	Ford,Mitsubishi,MG & Porsche			Application	



215mm Ø Cerametallic & Organic Drive Plate Hub Spline Details

Floating Plate	Geared	27.2mm x 10T	33mm x 30T	38mm x 10T	34mm x 6T	25mm x 6T	7/8" x 6T	24.3mm x 21T	1" x 6T	29mm x 26T	24.5mm x 21T	35mm x 26T	17.3mm x 20T	20mm x 20T	28mm x 25T	29mm x 22T	25.4mm x 23T	19mm x 17T	13/8" x 10T	22.5mm x 19T	28mm x 20T	T T T T T T T T T T T T T T T T T T T				Spline Data	
	46-1090	46-1058	46-1057	46-1056	46-1055	46-1054	46-1053	46-1052	46-1051	46-1050	46-1049	46-1048	46-1047	46-1046	46-1045	46-1044	46-1043	46-1042	46-1041	46-1040	46-1039			4 Paddle	Cerametallic	Hub Plate	Geared
	46-1091	46-1158	46-1157	46-1156	46-1155	46-1154	46-1153	46-1152	46-1151	46-1150	46-1149	46-1148	46-1147	46-1146	46-1145	46-1144	46-1143	46-1142	46-1141	46-1140	46-1139	o naccin	6 024412	Cerametallic	Hub Plate	Geared	
	46-1092	46-2058	46-2057	46-2056	46-2055	46-2054	46-2053	46-2052	46-2051	46-2050	46-2049	46-2048	46-2047	46-2046	46-2045	46-2044	46-2043	46-2042	46-2041	46-2040	46-2039		,	Organic	Hub Plate	Geared	
	Geared Floating Plate																								Thickness new 7.2mm all Drive Plates		
		Lancia Astura	Ferrrari flywheel HF 9476	Lancia	OM 1929		Alfa Romeo	Lotus	Ferrari	Audi, Volkswagen	Renault	BMW	Fiat, Renault	Honda	Ferrari	BMW	Sadev Gearbox spline	SAAB	Ferrari	Toyota	Toyota					Application	