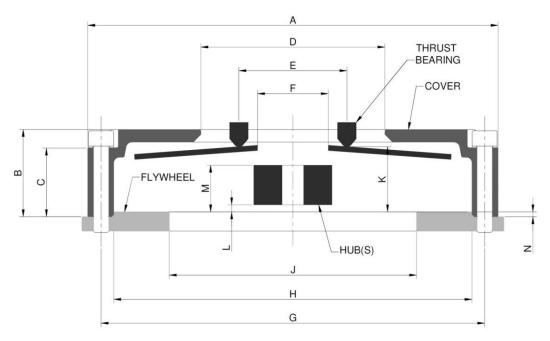
Clutch Specifications	Doc Number: 5969-01-500	Revision: A
Title:	Author:	Effective Date:
5969 Series – 140mm Twin Plate Race Clutch, Single Seater, F3	SRV	10/06/20



Clutch Dimensions

Dim	Description	mm
А	Diameter of cover	167
В	Height of cover	42.3
С	Grip height	32.3
D	Minimum inside diameter of cover	69
E	Min/max thrust bearing fulcrum diameter	40/50
F	Minimum inside diameter of spring fingers	36
G	Mounting bolt/stud PCD - BASIC	154.45
Н	Flywheel spigot diameter ±0.02	142.67
J	Flywheel inner diameter +0/-2	95
L	Clutch face to start of hub(s)	-
М	Clutch face to end of hub(s)	-
N	Flywheel spigot step height ±0.04	2.5

- Dimensions "L" and "M" are dependent on hub configurations selected at time of order. Please consult TTV Racing for details.
- Please consult TTV racing if your input shaft diameter is between Ø30mm Ø35mm.

Clutch Fastener Specifications

- Clutch should be fastened to the flywheel using 8 off M8 studs/ mechanical locking nuts or M8 Cap head screws/ safety washers.
- Fastener strength should be grade 10.9 minimum.
- Fasteners to be gradually tightened to 27Nm (20lbft) in a criss-cross pattern. Thread locking compound should be used.

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Clutch Performance Specifications

Clutch Type (Spring	Setup Heig	ght "K" mm	Torque Capacity	Max Release	Spring Thickness
Colour)	New	Worn	Nm (lbft)	Load Kg	mm
5969-07-001 (low ratio)	28	30.2	721 (532)	358	2x 2
5969-07-002 (High ratio)	28	30.2	920 (679)	358	2x 2

- Setup heights are from flywheel friction face and based on using an Ø40mm release bearing. Heights are subject to a tolerance of ±0.5mm.
- Release loads are based on an Ø46mm release bearing. A smaller diameter bearing will reduce release loads.

Clutch Mass and Inertias

Clutch Type	Assembly Mass Kg	Assembly MMOI Kg.m ²
5969-07-001	1.8461	0.00683
5969-07-002	1.8337	0.00675

Mass and inertias are for cover assemblies only and are estimated values.

Release Bearing Specification

- Release bearing should be of the steel caged, round nose type. Nominal Ø40 diameter.
- Release bearing travel must not exceed 3.8mm and should be limited by an external stop. Ensure spring fingers do not contact drive hubs.
- Release bearing should have enough backwards travel to allow the bearing to be free of the spring fingers when clutch is fully engaged at maximum wear.

Maintenance

Туре	Thickness mm		Eletrose mm
	New	Worn	Flatness mm
Pressure Plate	12.6	12.4	0.10
Floater Plate	6.0	5.8	0.10
Drive Plate	2.65	2.25	0.15

- Total allowable wear shall be <u>not more</u> than 0.8mm for the whole assembly.
- Regular inspection and maintenance of the clutch is recommended for optimum performance over the life of the clutch.
- Pressure, floater and drive plates should be checked for flatness and wear.

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