

## LIGHTWEIGHT CHROMOLY FLYWHEEL

Toyota 86 [ZN6] Scion FR-S [ZN6] Subaru BRZ [ZC6]



New lightweight flywheel for the Toyota 86 (ZN6) and Subaru BRZ (ZC6).

The first lightweight flywheel with absolutely zero rotational fluctuation. This was made possible by an innovative dimensional design combined with a special manufacturing technique.

### Increase Acceleration Response on an Naturally Aspirated Engine!



The Toyota 86 and Subaru BRZ currently serves a popular foundation to tune and race. The FR configured Horizontally Opposed FA20 engine is the key aspects of what makes this vehicle enjoyable to drive.

- Weight:	4.8kg (w/ 3 knockpins) (Factory = 9.34kg)
- Rotational Inertia:	526.8kgfcm <sup>2</sup> (Factory = 1242.6kgfcm <sup>2</sup> )
- Material:	SCM435H Chromium Molybdenum
- Part No:	965 023 A
- MSRP:	¥55,000 (JPY)

A lightened flywheel modification is best known to be used when tuning a naturally aspirated engine. By applying a lightened mass to the crankshaft axis, the energy required to start the rotational inertia is greatly decreased. Factory flywheels are designed to smooth out the revolutions of the engine and stabilize engine idle by applying weight to the mass, solely to cater to the general consumer market.

Cusco Chromoly Flywheels are 48% lighter and weigh 4.8kg (w/knockpins) as compared to the factory OEM 9.34kg. The initial rotational inertia for a factory flywheel is 1242.6 kgfm<sup>2</sup> as opposed to the Cusco unit 58% less torque load of 526.8 kgfm<sup>2</sup>. SCM435H Chromium Molybdenum steel is lightened and shaped using the Finite Element Method (FEM) for precise accuracy.

## CUSCO CLUTCH SERIES

Toyota 86 [ZN6] Scion FR-S [ZN6] Subaru BRZ [ZC6]



**LIGHTWEIGHT** - Cutting edge thin clutch disc enables a sharp response and feel. By developing the clutch disc and clutch cover as a set, we aimed for ultimate thinness and lightness. This resulted in less mass (inertia) and resulted in shortening the shift time (synchronizer).

**PRESSURE** - Clutch engagement at high revs occurs with ease. The reinforced clutch cover is capable of approximately 1000kg/f (depending on the car to a degree). The set's bore size can match for high power handling transmissions.

**STRENGTH & DURABILITY** - Strong enough to withstand the toughest of all driver treatments. Overwhelmingly thin, heat resistant and durable, the clutch disc and pressure plate have increased strength. The strap plate that connects the pressure plate and clutch cover has also been greatly reinforced.



### Metal Clutch Set

(Metal Single Disk + Cusco Clutch Cover)

Weighs 29% lighter than factory OEM  
[Part No] 965 022 F  
[MSRP] ¥59,000 (JPY)



### Copper Clutch Set

(Copper Single Disk + Cusco Clutch Cover)

Weighs 38% lighter than factory OEM  
Holds 1176.8 kgfm<sup>2</sup>  
[Part No] 965 022 G  
[MSRP] ¥63,900 (JPY)