

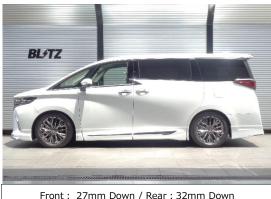
## Additional application for the DAMPER ZZ-R Spec DSC Plus has been confirmed for the TOYOTA ALPHARD PHEV / VELLFIRE PHEV (AAHP45W)

# DAMPER ZZ-R DSC+

Coil-over suspensions kit with electronically adjustable damping force. Wide range adjustability can finely balance driving performance and ride quality to meet your needs from the street to the circuit.







....

Front: 2/mm Down / Rear: 32

#### Click here for further information on DAMPER ZZ-R Spec DSC PLUS

(Vehicle)	(Model Year)	(Model)	(Engine Model)	(Code No.)	(JAN Code)
ТОУОТА					
ALPHARD PHEV	2025/01	AAHP45W	ADEA ENM ANM	00607	4050004096974
VELLFIRE PHEV	2025/01-	AAMP45W	A25A-5NM-4NM	98687	4959094986874

#### **Product Description**

#### Click here for price and availability

- Industry first Full Auto Mode is able to automatically adjust the damping force depending on how the vehicle's balance changes depending on variables such as road condition and number of passengers.
- The UP/Down switch has been enlarged and an additional rotary switch has been employed to make complex operations easier.
- The damping force can be easily adjusted from a controller inside your vehicle (Choose from 96/64/32 levels of adjustment). By utilizing a stepping motor, a maximum of 96 levels of adjustment is possible to finely tune the vehicle setup for your desired ride quality.
- During map control mode, variables such as rotational G, acceleration G, and vehicle speed are taken into account when automatically adjusting the damping force. G can be displayed in real time and its peak value can be shown as well.
- Total of 22 presets can be saved. The ADVANCED mode allows complex and detailed management of the damping force.
- With the separately sold GPS sensor kit, the vehicle speed can be easily inputted.

Product Specification				
	Front	Rear		
Length Adjustment	0	0		
Shock Absorber Structure	Coilovers	Separate		
Upright or Inverted	Upright	Upright		
Upper Mount	Reinforced Rubber	Reinforced Rubber		
Spring Rate kgf/mm	6.5	9.5		
Free Length of Spring mm	240	220		
Spring Type※	BS	BS		
Length Adjustment	-55 ∼ 0	-40 ∼ -25		



- $\blacksquare$  Remarks : Ride height adjustability from 6 passenger ALPHARD PHEV Executive Lounge.
- \*Abbreviation for Spring Types 「ST: ID62 Straight Spring」, 「BS: Barrel or Tapered, Vehicle Specific Springs」
- \*\*Adjustability in ride height may vary between vehicles.

### DAMPER ZZ-R Spec & Vehicle Information



Data taken from in house measurements. Measurements for the vehicle height may differ depending on the vehicle's grade and options. The distance from the ground to fender may differ even when your vehicle is set at the same measurements as the test vehicle. Please use the following data as a reference and adjust your vehicle height accordingly.

メーカー	車名	型式	年式	グレード
(Manufacturer)	(Vehicle Name)	(Model)	(Model Year)	(Grade)
TOYOTA	ALPHARD PHEV	AAHP45W	2025年3月	Executive Lounge

確認車両情報		フロント (Front)	リア (Rear)	備考 (Remarks)
	車重(kg) (Vehicle Weight)	2470		
	軸重(kg) (Axle Weight)	1290	1180	
車両情報 (Vehicle Information)	タイヤサイズ (Tire Size)	225/55 R19	225/55 R19	
	ホイールサイズ (Wheel Size)	19inch 7J Inset40	19inch 7J Inset40	
	レバー比 (Lever Ratio)	1.0	1.2	
	├─ (Toe)	+0°04'	+0°06'	
アライメントデータ (Alignment Data)	キャンバー (Camber)	-1°35'	-2°17'	
	キャスター (Caster)	+5°50'	_	

		フロント	リア	備考
DAMPER ZZ-R Spec.		(Front)	(Rear)	(Remarks)
	スプリングレート(kgf/mm) (Spring Rate)	6.5	9.5	
	スプリング自由長(㎜) (Free Length of Spring)	240	220	
	スプリング内径(mm) (Spring Inner Diameter)	φ62 - (φ115) - φ62	φ91.5 - (φ145) - φ78.5	
	減衰力調整段数	1段 ~ 32段	1段 ~ 32段	DSC Plus装着時
DAMPER ZZ-R	(Damping force Adjustment)	(HARD) (SOFT)	(HARD) (SOFT)	32,64,96段へ変更可能
仕様(Spec.)	地面〜フェンダー(mm) (Ground〜Fender)	737	738	
	基準車高(mm) (Difference from Stock)	-27	-32	
	車高調整範囲(㎜) (Height Adjustment Range)	-55 ∼ 0	-40 ∼ -25	
	最低地上高(㎜) (Minimum Ground Clearance)	113mm (マフラーフランジ)		※ホイールベース3000mmの為、 最低地上高100mm以上

初めてご使用される際の推奨減衰力	2.4 <i>E</i> Љ	<b>24</b> €∿	左記に記載の減衰に合わせ
(Recommended Damping force)	24FX	24段	てからご使用ください

Product shipped at damping force of 16. Turn the dial all the way to the right for level 1 which is the hardest. \*\*During installation turn the dial all the way to the right and then make adjustment towards the left accordingly.

#### **Product Description**

- ■Compatibility has been confirmed for the ALPHARD PHEV / VELLFIRE PHEV
- ■Lower your vehicle for a stylish form.
- ■Body roll has been limited for improved cornering performance.
- ■The suspension has been made to allow sufficient bump and rebound stroke for optimal ride comfort.
- ■Make adjustments to the damping force to optimize ride quality depending on number of passenger and road condition.
- ■Tested to ensure comfortable ride quality not only for the driver but for the 2<sup>nd</sup> and 3<sup>rd</sup> row seats.
- Increase the damping force by 4~6 click for speeds above 80km for greater stability.