

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

DAMPER ZZ-R ^{Spec} DSC+ _{Plus}

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 : 27mm Down / Rear : 32mm Down

[Click here for further information on DAMPER ZZ-R Spec DSC PLUS](#)

(Vehicle)	(Model Year)	(Model)	(Engine Model)	(Code No.)	(JAN Code)
TOYOTA					
ALPHARD PHEV	2025/01-	AAHP45W	A25A-5NM-4NM	98687	4959094986874
VELLFIRE PHEV					

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	○	○
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



■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.

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 (Manufacturer)	車名 (Vehicle Name)	型式 (Model)	年式 (Model Year)	グレード (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)
車両情報 (Vehicle Information)	車重(kg) (Vehicle Weight)	2470		
	軸重(kg) (Axle Weight)	1290	1180	
	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	
アライメントデータ (Alignment Data)	トー (Toe)	+0°04'	+0°06'	
	キャンバー (Camber)	-1°35'	-2°17'	
	キャスター (Caster)	+5°50'	-	

DAMPER ZZ-R Spec.		フロント (Front)	リア (Rear)	備考 (Remarks)
DAMPER ZZ-R 仕様(Spec.)	スプリングレート(kgf/mm) (Spring Rate)	6.5	9.5	
	スプリング自由長(mm) (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 (Damping force Adjustment)	1段 ~ 32段 (HARD) (SOFT)	1段 ~ 32段 (HARD) (SOFT)	DSC Plus装着時 32,64,96段へ変更可能
	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(mm) (Height Adjustment Range)	-55 ~ 0	-40 ~ -25	
	最低地上高(mm) (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 (Recommended Damping force)	24段	24段	左記に記載の減衰に合わせて からご使用ください
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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 2nd and 3rd row seats.
- Increase the damping force by 4~6 click for speeds above 80km for greater stability.