

Additional application for the 「DAMPER ZZ-R L SpecDSC Plus」
is now available for the TOYOTA ALPHARD PHEV / VELLFIRE PHEV (AAHP45W

DAMPER ZZ-R L SpecDSC Plus

Electronically controlled damping force adjustment system allows effortless changes to the ride quality.



Front : 17mm Down / Rear : 18mm Down

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

(Vehicle)	(Model Year)	(Model)	(Engine Model)	(Code No.)	(JAN Code)
TOYOTA					
ALPHARD PHEV	2025/01-	AAHP45W	A25A-5NM-4NM	98657	4959094986577
VELLFIRE PHEV					

Product Description

[Click here for price and availability](#)

- Height adjustable ZZ-R L combined with electronically controlled damping force adjustment system allowing quick and easy changes from inside the cabin.
- Industry first Full Auto Mode enlarged, 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).
- During map control mode, variables such as rotational G, acceleration G, and vehicle speed are considered 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.

Product Specification		
	Front	Rear
Length Adjustment	○	○
Shock Absorber Structure	Coilovers	Separate
Upright or Inverted	Upright	Upright
Upper Mount	Stock	Reinforced Rubber
Spring Rate kgf/mm	7.5	10.5
Free Length of Spring mm	250	240
Spring Type※	BS	BS
Ride Height Adjustability mm	-30 ~ 0	-25 ~ 0



■Remarks : Rear damping force dials located inside wheel well. Ride height from ALPHARD PHEV 6 passenger 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 L 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 (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°03'	+0°05'	
	キャンバー (Camber)	-1°11'	-1°56'	
	キャスター (Caster)	+5°39'	-	

DAMPER ZZ-R L 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)	7.5	10.5	
	スプリング自由長(mm) (Free Length of Spring)	250	240	
	スプリング内径(mm) (Spring Inner Diameter)	φ107.5 - (φ175) - φ62.5	φ91.5 - (φ152) - 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)	745	751	
	基準車高(mm) (Difference from Stock)	-17	-18	
	車高調整範囲(mm) (Height Adjustment Range)	-30 ~ 0	-25 ~ 0	
	最低地上高(mm) (Minimum Ground Clearance)	123mm (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)	28段	20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

- Luxury model suspensions aimed for enhanced comfort and ride quality.
- For customer pursuing premium feel with outstanding driving performance that is expected from the Damper ZZ-R Series.
From cities to the highway unnecessary pitch and roll are suppressed for stability in all situations.
- Moderate lowering amount to achieve style that is distinct from the stock appearance.
- Bump rubbers and shock absorbers for both front and rear are specifically designed for the Damper ZZ-R L series.
- The kit also includes short bump rubbers for the rear springs.
- By installing the Optional Damper ZZ-R L Spec DSC PLUS, the damping force can be adjusted from inside the vehicle.
Additionally, G sensor and speed can be inputted for automated changes to the damping force.