

Additional application for the <code>[DAMPER ZZ-R L SpecDSC Plus]</code> is now available for the <code>TOYOTA ALPHARD/VELLFIRE (AGH4#W/TAHA4#)</code>

DAMPER ZZ-R L DSC+

HYBRID

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





Click here for more information on DAMPER ZZ-R L Spec DSC PLUS

(Vehicle)	(Model Year)	(Model)	(E/G Model)	(Code No.)	(JAN Code)
TOYOTA			,		
ALPHARD		AGH40W,AGH45W	2AR-FE		
ALPHARD		AAHH40W	A25A-5NM		
HYBRID		AAHH45W	A25A-5NM-4NM		
VELLFIRE	2023/06-	TAHA40W,	T24A-FTS	98650	4959094986508
VLLLI INL		TAHA45W	1274113		
VELLFIRE		AAHH40W	A25A-5NM		

A25A-5NM-4NM

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).

AAHH45W

- 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	0	0		
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	220		
Spring Type※	BS	BS		
Ride Height Adjustability mm	-35 ∼ 0	-35 ∼ 0		



■ Remarks: 2WD, 4WD Compatible. Unchecked with PHEV/HYBRID X/Special Lounge / well cab.

Rear damping force dials located inside wheel well. Ride height from AAHH45W (ALPHARD HYBRID).

*Adjustability in ride height may vary between vehicles.

Optional Parts		
Product Name	Code No.	Remarks
DSC PLUS GPS Sensor Kit	15214	Vehicle speed can be easily inputted
DSC PLUS Remote Switch	15219	Allows you to conveniently switch settings.

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	車名	型式	年式	グレード
(Manufacturer)	(Vehicle Name)	(Model)	(Model Year)	(Grade)
TOYOTA	ALPHARD HYBRID	AAHH45W	2023年7月	Exective Lounge

確認車両情報		フロント (Front)	リア (Rear)	備考 (Remarks)
	車重(kg) (Vehicle Weight)	2290		
	軸重(kg) (Axle Weight)	1200	1090	
車両情報 (Vehicle Information)	タイヤサイズ (Tire Size)	245/45 R20	245/45 R20	
	ホイールサイズ (Wheel Size)	20inch 8.5J Inset35	20inch 8.5J Inset35	
	レバー比 (Lever Ratio)	1.0	1.2	
	├- (Toe)	+0°03'	+0°03'	
アライメントデータ (Alignment Data)	キャンバー (Camber)	-1°04'	-1°55'	
	キャスター (Caster)	+5°40'	_	

		フロント	リア	備考
DAMPER ZZ-R L Spe	С.	(Front)	(Rear)	(Remarks)
	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	220	
	スプリング内径(mm) (Spring Inner Diameter)	φ107.5 - (φ175) - φ62.5	φ91.5 - (φ148) - 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)	740	741	
	基準車高(mm) (Difference from Stock)	-18	-16	
	車高調整範囲(㎜) (Height Adjustment Range)	-35 ∼ 0	-35 ∼ 0	
	最低地上高(㎜) (Minimum Ground Clearance)	118mm (リアサスペンシ	ョンメンバー下マフラーパイプ)	※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	28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.
- Adjust the damping force to optimize ride quality depending on number of passenger and road condition
- Increase the damping force by 4~6 click for speeds above 80km/h to improve vehicle stability.

DAMPER ZZ-R L Spec & Vehicle Information



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メーカー	車名	型式	年式	グレード
(Manufacturer)	(Vehicle Name)	(Model)	(Model Year)	(Grade)
TOYOTA	VELLFIRE	TAHA40W	2023年9月	Z Premier

確認車両情報		フロント (Front)	יקנו (Rear)	備考 (Remarks)
	車重(kg) (Vehicle Weight)	2	180	
	軸重(kg) (Axle Weight)	1200	980	
車両情報 (Vehicle Information)	タイヤサイズ (Tire Size)	245/40 R21	245/40 R21	
	ホイールサイズ (Wheel Size)	21inch 9.0J Inset35	21inch 9.0J Inset35	
	レバー比 (Lever Ratio)	1.0	1.2	
	├— (Toe)	+0°01'	+0°05'	
アライメントデータ (Alignment Data)	キャンバー (Camber)	-1°11'	-1°45'	
	キャスター (Caster)	+5°19'	_	

DAMPER ZZ-R L Spe	c.	フロント (Front)	リア (Rear)	備考 (Remarks)
	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	220	
	スプリング内径(mm) (Spring Inner Diameter)	φ107.5 - (φ175) - φ62.5	φ91.5 - (φ148) - φ78.5	
DAMPER ZZ-R	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
仕様(Spec.)	地面〜フェンダー(mm) (Ground〜Fender)	749	753	
	基準車高(mm) (Difference from Stock)	-17	-21	
	車高調整範囲(㎜) (Height Adjustment Range)	-30 ∼ 0	-30 ∼ 0	
	最低地上高(mm) (Minimum Ground Clearance)	128mm (⁷	マフラーパイプ)	※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	2CE∏.	26段	左記に記載の減衰に合わせ
(Recommended Damping force)	26段	20段	てからご使用ください

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メーカー	車名	型式	年式	グレード
(Manufacturer)	(Vehicle Name)	(Model)	(Model Year)	(Grade)
TOYOTA	ALPHARD	AGH45W	2024年1月	Z

確認車両情報		フロント (Front)	リア (Rear)	備考 (Remarks)
	車重(kg) (Vehicle Weight)	2120		
	軸重(kg) (Axle Weight)	1120	1000	
車両情報 (Vehicle Information)	タイヤサイズ (Tire Size)	225/65 R17	225/65 R17	
	ホイールサイズ (Wheel Size)	17inch 6.5J Inset40	17inch 6.5J Inset40	
	レバー比 (Lever Ratio)	1.0	1.2	
	├─ (Toe)	+0°01'	+0°18'	
アライメントデータ (Alignment Data)	キャンバー (Camber)	-2°04'	-1°47'	
	キャスター (Caster)	+4°59'	_	

DAMPER ZZ-R L Spe	r	フロント	リア	備考
DAM ER 22 R E Spe	C.	(Front)	(Rear)	(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	220	
	スプリング内径(mm) (Spring Inner Diameter)	φ107.5 - (φ175) - φ62.5	φ91.5 - (φ148) - φ78.5	
	減衰力調整段数	1段 ~ 32段	1段 ~ 32段	DSC Plus装着時
	(Damping force Adjustment)	(HARD) (SOFT)	(HARD) (SOFT)	32,64,96段へ変更可能
	地面〜フェンダー(mm) (Ground〜Fender)	743	745	
	基準車高(mm) (Difference from Stock)	-16	-13	
	車高調整範囲(mm) (Height Adjustment Range)	-30 ∼ 0	-20 ∼ 0	
	最低地上高(㎜) (Minimum Ground Clearance)	121mm (マフラーパイプ(フランジ後ろ))		※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)	26段	28段	左記に記載の減衰に合わせてからで使用ください
(Recommended Damping force)			しかりと使用いたとい

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