

## Additional application for the [DAMPER ZZ-R L] is now available for the TOYOTA ALPHARD/VELLFIRE (AGH3#W/AYH30W)

# DAMPER ZZ-R

Adjustable suspension kit with springs and bump rubbers tailored vehicle specifically. Stock upper mounts are utilized and the amount of oil optimized for a smoother ride quality.



#### Click here for more information on DAMPER ZZ-R L



(Vehicle)	(Model Year)	(Model)	(E/G Model)	(Code No.)	(JAN Code)
TOYOTA			•		
ALPHARD		AGH30W,AGH35W GGH30W,GGH35W	,		
ALPHARD HYBRID	2015/01-	AYH30W	2AR-2JM-2FM	92652	4959094926528
VELLFIRE	2023/06	AGH30W,AGH35W GGH30W,GGH35W	·	92032	4939094920326
VELLFIRE HYBRID		AYH30W	2AR-2JM-2FM		

### **Product Characteristics**

### Click here for price and availability

- The ZZ-R L series pursues greater quality, ride comfort and quietness compared to its predecessor.
- Employs 32 levels of damping force adjustability and height adjustable suspension kit.
- Balances comfort and stability at high speeds while moderately lowering the vehicle for style.
- To ensure optimal ride quality stock upper mount along with vehicle specific spring, and bump rubber are utilized. Furthermore, the amount of oil in the shock absorber has been optimized to ensure sufficient stroke length.
- φ44 Mono-tube structure allows a fine balance of structural rigidity and smooth ride quality.

Product Specification				
	Front	Rear		
Damping Force Adjustability	32 Levels	32 Levels		
Length Adjustment	0	0		
Shock Absorber Structure	Coilovers	Separate		
Upright or Inverted	Upright	Upright		
Upper Mount	Stock	Reinforced Rubber		
Spring Rate kgf/mm	6.5	9.5		
Free Length of Spring mm	230	220		
Spring Type	BS	BS		
Ride Height Adjustability mm	-40 ∼ 0	-50 ∼ -20		



■ Remarks: 2WD, 4WD Compatible . 2.5L, 3.5L Compatible. Unchecked with Royal lounge / Special Lounge/ Well Cab. Rear damping force dials located inside wheel well. Ride height from AGH35W (ALPHARD).

## 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	AGH35W	2023年5月	S

確認車両情報		フロント (Front)	リア (Rear)	備考 (Remarks)
	車重(kg) (Vehicle Weight)	2000		
	軸重(kg) (Axle Weight)	1080	920	
車両情報 (Vehicle Information)	タイヤサイズ (Tire Size)	235/50 R18	235/50 R18	
	ホイールサイズ (Wheel Size)	18inch 7.5J Inset45	18inch 7.5J Inset45	
	レバー比 (Lever Ratio)	1.0	1.2	
	├– (Toe)	+0°02'	+0°11'	
アライメントデータ (Alignment Data)	キャンバー (Camber)	-1°18'	-1°19'	
	キャスター (Caster)	+5°56'	ı	

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)	6.5	9.5	, ,
	スプリング自由長(mm) (Free Length of Spring)	230	220	
	スプリング内径(mm) (Spring Inner Diameter)	φ104.5 - (φ135) - φ62.5	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)	727	736	
	基準車高(mm) (Difference from Stock)	-28	-34	
	車高調整範囲(㎜) (Height Adjustment Range)	-40 ∼ 0	-50 ∼ -20	
	最低地上高(㎜) (Minimum Ground Clearance)	136mm (マフラー	パイプ(触媒後ろ))	<ul><li>※ホイールベース3000mmの為、</li><li>最低地上高100mm以上</li></ul>

初めてご使用される際の推奨減衰力	26 EЉ	28段	左記に記載の減衰に合わせ
(Recommended Damping force)	26段	20FX	てからご使用ください

<sup>%</sup> 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.

## 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	ALPHARD HYBRID	AYH30W	2018年1月	Exective Lounge S

確認車両情報		フロント (Front)	リア (Rear)	備考 (Remarks)
	車重(kg) (Vehicle Weight)	2	250	
	軸重(kg) (Axle Weight)	1180	1070	
車両情報 (Vehicle Information)	タイヤサイズ (Tire Size)	245/40 R20	245/40 R20	
	ホイールサイズ (Wheel Size)	20inch 8.5J Inset44	20inch 8.5J Inset44	
	レバー比 (Lever Ratio)	1.0	1.2	
	├─ (Toe)	+0°04'	-0°05'	
アライメントデータ (Alignment Data)	キャンバー (Camber)	-0°29'	-2°31'	_
	キャスター (Caster)	+6°39'	-	

		フロント	リア	備考
DAMPER ZZ-R L 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(mm) (Free Length of Spring)	230	220	
	スプリング内径(mm) (Spring Inner Diameter)	φ104.5 - (φ135) - φ62.5	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)	713	719	
	基準車高(mm) (Difference from Stock)	-45	-42	
	車高調整範囲(mm) (Height Adjustment Range)	-55 ∼ 0	-60 ∼ -30	
	最低地上高(㎜) (Minimum Ground Clearance)	119mm (ガソリンタ	ンク右前マフラーパイプ)	<ul><li>※ホイールベース3000mmの為、</li><li>最低地上高100mm以上</li></ul>

初めてご使用される際の推奨減衰力 (Recommended Damping force)	24段	26段	左記に記載の減衰に合わせてからず使用とださい
(Recommended Damping force)			しかりと使用いたとい

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