

Additional application for the 「DAMPER ZZ-R L SpecDSC Plus」  
is now available for the TOYOTA ALPHARD/VELLFIRE (AGH3#W/AYH30W )

## DAMPER ZZ-R L Spec DSC+ Plus

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



Front : 28mm Down / Rear : 34mm Down

[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	2015/01- 2023/06	AGH30W,AGH35W GGH30W,GGH35W	2AR-FE, 2GR-FKS	98652	4959094986522
ALPHARD HYBRID		AYH30W	2AR-2JM-2FM		
VELLFIRE		AGH30W,AGH35W GGH30W,GGH35W	2AR-FE, 2GR-FKS		
VELLFIRE HYBRID		AYH30W	2AR-2JM-2FM		

### 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	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.  
Ride height from AGH35W (ALPHARD).

※Abbreviation for Spring Types 「ST : ID62 Straight Spring」 , 「BS : Barrel or Tapered, Vehicle Specific Springs」

※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 (Manufacturer)	車名 (Vehicle Name)	型式 (Model)	年式 (Model Year)	グレード (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)
車両情報 (Vehicle Information)	車重(kg) (Vehicle Weight)	2000		
	軸重(kg) (Axle Weight)	1080	920	
	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	
アライメントデータ (Alignment Data)	トー (Toe)	+0°02'	+0°11'	
	キャンバー (Camber)	-1°18'	-1°19'	
	キャスター (Caster)	+5°56'	-	

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)	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 (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)	727	736	
	基準車高(mm) (Difference from Stock)	-28	-34	
	車高調整範囲(mm) (Height Adjustment Range)	-40 ~ 0	-50 ~ -20	
	最低地上高(mm) (Minimum Ground Clearance)	136mm (マフラーパイプ (触媒後ろ) )		※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 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.

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メーカー (Manufacturer)	車名 (Vehicle Name)	型式 (Model)	年式 (Model Year)	グレード (Grade)
TOYOTA	ALPHARD HYBRID	AYH30W	2018年1月	Executive Lounge S

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)	2250		
	軸重(kg) (Axle Weight)	1180	1070	
	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	
アライメントデータ (Alignment Data)	トー (Toe)	+0°04'	-0°05'	
	キャンバー (Camber)	-0°29'	-2°31'	
	キャスター (Caster)	+6°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)	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 (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)	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(mm) (Minimum Ground Clearance)	119mm (ガソリタンク右前マフラーパイプ)		※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	26段	左記に記載の減衰に合わせて てからご使用ください
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