

Additional application for the DAMPER ZZ-R Spec DSC Plus has been confirmed for the TOYOTA ALPHARD/VELLFIRE (AGH4#W/TAHA4#)

DAMPER ZZ-R DSC+

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.







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

Front: 24mm	Down / Rear	: 25mm	Down
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(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		
VFI I FIRE	2023/06-	TAHA40W,	T24A-FTS	98645	4959094986454
VLLLINL		TAHA45W	1244-113		
VELLFIRE		AAHH40W	A25A-5NM		
HYBRID		AAHH45W	A25A-5NM-4NM		

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	0	0				
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	-50 ∼ 0	-45 ∼ -15				



■ Remarks: 2WD/4WD Compatible. Unchecked with Well cab. Information on ride height from AAHH45W (ALPHARD HYBRID).

※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	Easily input speed
DSC PLUS Remote Switch	15219	Separate switch to change modes



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	AGH40W	2023年9月	Z

74-57 + 77-44-10		フロント	リア	備考
確認車両情報		(Front)	(Rear)	(Remarks)
車重(kg) (Vehicle Weight)		20	080	
	軸重(kg) (Axle Weight)	1130	950	
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°10'	-1°51'	
	キャスター (Caster)	+5°42'	-	

		フロント	リア	備考
DAMPER ZZ-R 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)	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	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)	737	738	
	基準車高(mm) (Difference from Stock)	-33	-31	
	車高調整範囲(㎜) (Height Adjustment Range)	-50 ∼ 0	-40 ∼ -5	
	最低地上高(mm) (Minimum Ground Clearance)	108mm (リアサスペンショ	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	28段	28段	左記に記載の減衰に合わせ
(Recommended Damping force)	2012	2040	てからご使用ください

**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

- Cornering performance has been improved by lowering the center of gravity.
- Lower the vehicle for a more stylish form.
- Increase the damping force for better stability during higher speeds.
- Make adjustments to the damping force to optimize ride quality depending on number of passenger and road condition.
- The suspension has been made to allow sufficient bump and rebound stroke for optimal ride comfort.
- For vehicles above 80km/h increase the damping force by 4~6 clicks to improve vehicle stability.
- Developed to provide excellent ride quality for passengers in the 2nd and 3rd row seats.



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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	AAHH45W	2023年7月	Exective Lounge

		フロント	リア	備考
確認車両情報		(Front)	(Rear)	(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)	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°04'	+0°06'	
アライメントデータ (Alignment Data)	キャンバー (Camber)	-1°44'	-1°50'	
	キャスター (Caster)	+5°42'	_	

		フロント	リア	備考
DAMPER ZZ-R 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)	240	220	
	スプリング内径(㎜) (Spring Inner Diameter)	φ62 - (φ115) - φ62	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)	735	735	
	基準車高(mm) (Difference from Stock)	-24	-25	
	車高調整範囲(㎜) (Height Adjustment Range)	-50 ∼ 0	-45 ∼ -15	
	最低地上高(㎜) (Minimum Ground Clearance)	108mm (リアサスペンショ	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

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

[%]Product shipped at damping force of 16. Turn the dial all the way to the right for level 1 which is the hardest.
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(Manufacturer)	(Vehicle Name)	(Model)	(Model Year)	(Grade)
TOYOTA	VELLFIRE	TAHA40W	2023年9月	Z Premier

		フロント	リア	備考
確認車両情報		(Front)	(Rear)	(Remarks)
車重(kg) (Vehicle Weight)		2180		
	軸重(kg) (Axle Weight)	1200	980	
車両情報 (Vehicle Information)	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	17inch 7J Inset40	
	レバー比 (Lever Ratio)	1.0	1.2	
	トー (Toe)	+0°06'	+0°11'	
アライメントデータ (Alignment Data)	キャンバー (Camber)	-1°59'	-1°42'	
	キャスター (Caster)	+5°44'	-	

		フロント	リア	備考
DAMPER ZZ-R Spec.		(Front)	(Rear)	(Remarks)
	7-fil> Hil 1/1	(TTOTIC)	(Rear)	(Remarks)
	スプリングレート(kgf/mm)	6.5	9.5	
	(Spring Rate)			1
	スプリング自由長(mm)	240	220	
	(Free Length of Spring)	210		
	スプリング内径(mm)	(n62 (n11E) (n62	φ91.5 - (φ145) - φ78.5	
	(Spring Inner Diameter)	φ62 - (φ115) - φ62 φ91	ψ31.5 - (ψ145) - ψ78.5	
	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)	745	742	
	(Ground~Fender)			
	基準車高(mm)	-26	-34	
	(Difference from Stock)			
	車高調整範囲(mm)	-55 ~ 0 -4	40 10	
	(Height Adjustment Range)		-40 ∼ -10	
	最低地上高(mm)	119mm (マフラーパイプ)		※ホイールベース3000mmの為
	(Minimum Ground Clearance)			最低地上高100mm以上
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カルファ (市F	Bされる際の推将活真力			大記に記載の試査に合わせ

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(Manufacturer)	(Vehicle Name)	(Model)	(Model Year)	(Grade)
TOYOTA	VELLFIRE HYBRID	AAHH45W	2023年7月	Exective Lounge

		フロント	リア	備考
確認車両情報		(Front)	(Rear)	(Remarks)
	車重(kg) (Vehicle Weight)	2330		
	軸重(kg) (Axle Weight)	1220	1100	
車両情報 (Vehicle Information)	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	
	├─ (Toe)	+0°04'	+0°06'	
アライメントデータ (Alignment Data)	キャンバー (Camber)	-2°06'	-1°51'	
	キャスター (Caster)	+5°31'	-	

		フロント	リア	備考
DAMPER ZZ-R 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)	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	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)	743	745	
	基準車高(mm) (Difference from Stock)	-15	-16	
	車高調整範囲(㎜) (Height Adjustment Range)	-50 ∼ 0	-40 ∼ -10	
	最低地上高(mm) (Minimum Ground Clearance)	123mm (リアサスペンショ	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	24段	26段	左記に記載の減衰に合わせ
(Recommended Damping force)	24FX	20 F X	てからご使用ください

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