

Additional applications for the DAMPER ZZ-R Spec DSC Plus have been confirmed for the
TOYOTA RAV4(HYBRID/PHV) / HARRIER(HYBRID/PHEV)
(MXAA52,MXAA54 / MXUA80,MXUA85)

DAMPER ZZ-R Spec DSC Plus

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.



Front : 45mm Down / Rear : 50mm Down

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

(Vehicle)	(Model Year)	(Model)	(E/G Model)	(Code No.)	(JAN Code)
TOYOTA					
RAV4	2019/04-	MXAA52,MXAA54	M20A-FKS	98644	4959094986447
RAV4 PHV	2020/06-	AXAP54	A25A-5NM-4NM		
RAV4 HYBRID	2019/04-	AXAH52,AXAH54	A25A-3NM, A25A-3NM-4NM		
HARRIER	2020/06-	MXUA80,MXUA85	M20A-FKS		
HARRIER PHEV	2022/10-	AXUP85	A25A-5NM-4NM		
HARRIER HYBRID	2020/06-	AXUH80,AXUH85	A25A-3NM, A25A-3NM-4NM		

Product Description

- 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	○	○
Shock Absorber Structure	Coilovers	Separate
Upright or Inverted	Upright	Upright
Upper Mount	Reinforced Rubber	Reinforced Rubber
Spring Rate kgf/mm	6.0	6.0
Free Length of Spring mm	220	245
Spring Type※	BS	BS
Length Adjustment	-95 ~ 0	-75 ~ -35



■Remarks : 2WD/4WD. Gasoline, Hybrid Compatible. Rear damping force adjustment dials located inside wheel well. Information on ride height from AXAH54.
※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 Vehicle Specific Set TYPE-A	15236	Upgrade to the DSC Plus with the vehicle specific set
DSC PLUS GPS Sensor Kit	15214	Easily input speed
DSC PLUS Remote Switch	15219	Separate switch to change modes

DAMPER ZZ-R 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	RAV4	AXAH54	2019年4月	HYBRID G

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)	1710		
	軸重(kg) (Axle Weight)	970	740	
	タイヤサイズ (Tire Size)	245/45 R20	245/45 R20	
	ホイールサイズ (Wheel Size)	20inch 10.0J Inset30	20inch 10.0J Inset30	
	レバー比 (Lever Ratio)	1.1	1.2	
アライメントデータ (Alignment Data)	トー (Toe)	-0°04'	+0°07'	
	キャンバー (Camber)	-1°38'	-2°27'	
	キャスター (Caster)	+4°56'	-	

DAMPER ZZ-R 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)	6.0	6.0	
	スプリング自由長(mm) (Free Length of Spring)	220	245	
	スプリング内径(mm) (Spring Inner Diameter)	φ62 - (φ115) - φ62	φ62 - (φ115) - φ62	
	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)	760	755	
	基準車高(mm) (Difference from Stock)	-45	-50	
	車高調整範囲(mm) (Height Adjustment Range)	-95 ~ 0	-75 ~ -35	
	最低地上高(mm) (Minimum Ground Clearance)	144mm (マフラータイコ2個目前側)		

初めてご使用される際の推奨減衰力 (Recommended Damping force)	16段	16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

- Body roll has been limited for improved cornering performance.
- 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.
- Increase the damping force by 4~6 clicks when traveling at speed higher than 80km for a more stable ride.