

Additional applications for the DAMPER ZZ-R have been confirmed for the TOYOTA VOXY(HYBRID)/NOAH(HYBRID) (MZRA90W/ZWR90W)



Suspension Kit equipped with Full Length Adjustability and 32 Levels of Damping Force Adjustments. 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 details on DAMPER ZZ-R](#)



Front : 23mm Down / Rear : 28mm Down

(Vehicle)	(Model Year)	(Model)	(E/G Model)	(Code No.)	(JAN Code)
TOYOTA					
VOXY	2022/01-	MZRA90W	M20A-FKS	92642	4959094926429
VOXY HYBRID		ZWR90W	2ZR-1VM		
NOAH		MZRA90W	M20A-FKS		
NOAH HYBRID		ZWR90W	2ZR-1VM		

Product Description

- Mono-tube adjustable coil over suspension kit.
- Employs 32 levels of damping force adjustability.
- Compatible with a wide range a circumstance from the street to the circuit.
- Aluminum upper mount, lock seat, and brackets have been utilized to maximize strength while minimizing weight.
- 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	○	○
Shock Absorber Structure	Coilovers	Separate
Upright or Inverted	Upright	Upright
Upper Mount	Reinforced Rubber	Stock
Spring Rate kgf/mm	6.0	7.0
Free Length of Spring mm	220	190
Spring Type※	BS	BS
Ride Height Adjustability mm	-60 ~ 0	-40 ~ 0



■ Remarks : 2WD Only. Unchecked with Well cab. Information on ride height from ZWR90W (VOXY 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 Vehicle Specific Set TYPE-G	15242	Upgrade to the DSC Plus with the vehicle specific set

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	VOXY HYBRID	ZWR90W	2022年5月	HYBRID S-Z

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)	1700		
	軸重(kg) (Axle Weight)	970	730	
	タイヤサイズ (Tire Size)	225/40 R19	225/40 R19	
	ホイールサイズ (Wheel Size)	19inch 8.0J Inset45	19inch 8.0J Inset45	
	レバー比 (Lever Ratio)	1.0	1.1	
アライメントデータ (Alignment Data)	トー (Toe)	+0°05'	+0°17'	
	キャンバー (Camber)	-1°18'	-1°16'	
	キャスター (Caster)	+7°11'	-	

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	7.0	
	スプリング自由長(mm) (Free Length of Spring)	220	190	
	スプリング内径(mm) (Spring Inner Diameter)	φ62 - (φ105) - φ62	φ62 - (φ115) - φ62	
	減衰力調整段数 (Damping force Adjustment)	1~32段	1~32段	DSC Plus装着時 32,64,96段へ変更可能
	地面~フェンダー(mm) (Ground~Fender)	687	688	
	基準車高(mm) (Difference from Stock)	-23	-28	
	車高調整範囲(mm) (Height Adjustment Range)	-60 ~ 0	-40 ~ 0	
	最低地上高(mm) (Minimum Ground Clearance)	132mm (フロントメンバー中央)		

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 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.
- Rear suspension optimized for comfortable ride quality for 2nd and 3rd row seats.
- The ride height has been adjusted to make the vehicle silhouette look flatter.
- By installing the Optional DSC PLUS vehicle specific kit, the damping force can be easily adjusted from inside the vehicle.