

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



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 : 23mm Down / Rear : 28mm 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 | | | | | |
| VOXY | 2022/01- | MZRA90W | M20A-FKS | 98642 | 4959094986423 |
| VOXY HYBRID | | ZWR90W | 2ZR-1VM | | |
| NOAH | | MZRA90W | M20A-FKS | | |
| NOAH HYBRID | | ZWR90W | 2ZR-1VM | | |

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 | Product Specification | |
|--------------------------|-----------------------|----------|
| | Front | Rear |
| 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 |
| Length Adjustment | -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 |
| 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 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 からご使用ください |
|---|-----|-----|----------------------------|

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.
- Increase the damping force by 4~6 clicks when traveling at speed higher than 80km for a more stable ride.