MS303-47004 GR performance damper



Mounting/handling instructions

Thank you for purchasing the GR Performance Bamper. This manual describes the points and cautions regarding the installation and handling of this product. Be sure to read it before installation, and carry out correct installation and handling. Be sure to give this manual to the customer.

"PERFORMANCE DAMPER" is a registered trademark of Yamaha Motor Co., Ltd.

• This product cannot be installed on unregistered vehicles, please install after vehicle registration. • Installation work of this product • Be sure to perform parts replacement at a specialized repair shop. • Installation of this product • When replacing parts, be sure to follow the repair manual for the vehicle (issued by Toyota Motor Corporation) and observe the precautions in this manual.

ÿ Product number and compatible models

Product number	Vehicle	remarks
MS303-47004	type Prius '22.12~	

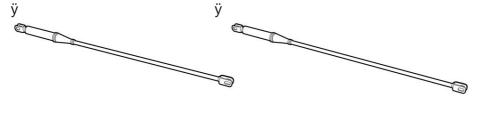
• Please refer to the TRD catalog site for the latest compatibility information. https://www.trdparts.jp/

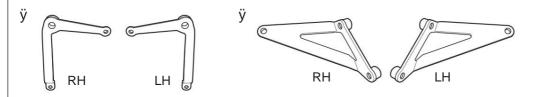
ÿ Components

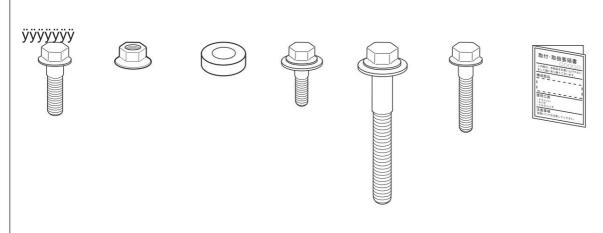
No.	0.		remarks
Product name ÿ Performance damper FR		1	L=687mm
ÿ	ÿ Performance Damper		L=720mm
RR	racket FR (RH/LH)	1 each	
ÿ	Bracket RR (RH/LH)	1 each	
ÿ	Flange bolt A	4	M10×40
ÿ	Flange nut ÿ	M10	0 4
Spa	Spacer ÿ		4
	Washer bolt A ÿ	M8:	×25 2
	Washer bolt B ÿ	M14	4×119 2
	Flange bolt B ÿ	4 M	8×45
Insta	allation • Instruction manual	1 This	document

^{*}Confirmation - Upon arrival of this product, immediately check that there is no damage to the main unit and that all accessories are included.





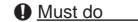




Precautions for installation (For installers)

Be sure to read it before starting work, and perform safe and reliable installation work.

caveat	It describes the contents that may cause life hazard or serious injury, etc. if you do not follow this content and install or handle it incorrectly.
Note	This indicates that improper installation or handling without following the precautions may lead to an accident, injury, or damage to the vehicle.
advice	This section contains information that you should know in order to work speedily.





- WARNING Do not modify or modify this product, or install it on non-compatible models, as doing so may result in serious accidents. Never disassemble or
- notes this product. It may cause damage or an accident.
- Before installation, be sure to turn off the engine on a flat surface and check that the parking brake is engaged. The vehicle may move unexpectedly and cause a serious accident such as a body being caught. When installing or
- preplacing this product, follow the repair manual for the vehicle (issued by Toyota Motor Corporation) and observe the precautions in this manual. Tighten
- securely according to the specified torque when installing. Insufficient tightening may cause a serious accident or malfunction due to falling off. When remodeling to lower the vehicle height,
- ensure a minimum ground clearance of \$10\text{many} (\hat\text{hartgd}) \(\delta\left(\hat\text{blenteling}\) on the wheelbase and overhang value of the vehicle) When driving on public roads with a vehicle equipped with a vehicle height adjustment
- type suspension kit, please be careful of interference with the road surface.

Please

- be sure to replace or install this product at a well-equipped specialized repair shop. When replacing, be sure to follow
- the repair manual for the vehicle (issued by Toyota Motor Corporation) and observe the precautions in this manual. Before installing this product,
- check that the main unit and components are complete and that there are no damages or defects. We may not be able to respond to claims for damage or defects discovered after installation. When installing this product, handle it on a protective
- sheet to prevent it from being scratched, and at the same time cover the installation area with a protective material before starting work. Be careful not to scratch or damage the product during installation. Make sure the engine is cold before installing. If the engine compartment
- and muffler are hot, you may get burned. After installation, check for interference between this product and other parts. If there is any interference, please contact the
- store where you purchased this product. Continuing to drive as is may cause damage or malfunction. If you receive a strong impact such as a collision after installing this product, please stop using it immediately. Doing so may
- ause deformation, damage, or malfunction of the mounting part or the main unit. Please be sure to have it inspected at the repair shop. After installing this product, if you feel any abnormal vibration or noise while driving, immediately stop in a safe place.
- ① Continuing to drive under these conditions may cause a serious accident or damage. Please have it checked at a repair shop.

After installation

- and the vehicle. If you disconnect the negative terminal of the battery during work, set up and check the system after work is complete.
- It may be necessary to reconfigure or adjust the parts that have been disassembled or removed during this installation. Please check, adjust and set each part according to the repair manual (issued by Toyota Motor

Corporation) of the applicable vehicle. ÿlf a problem occurs, please contact the store where you purchased the product as soon as possible.

ў ўўў. ў

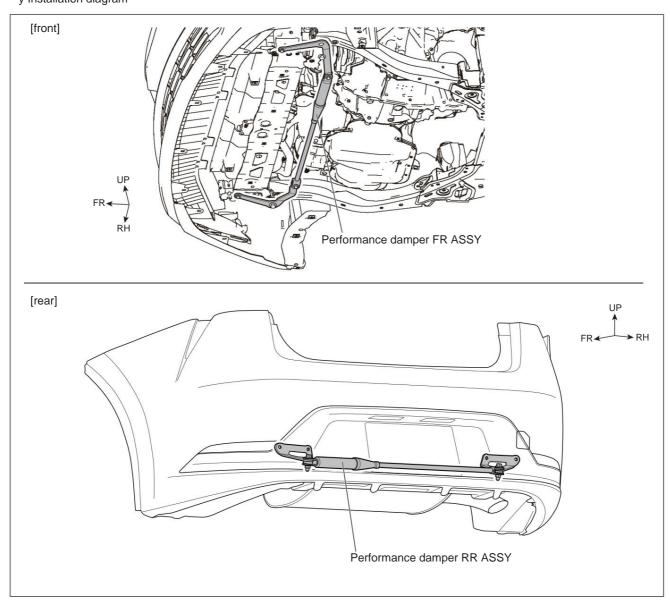
of Contents, Tools, Protective Equipment, Consumables Required for Installation, Warranty, Installation Diagram ••• 4 4. Installation Preparation, Installation Instructions, Tightening Torque List Table ••••••5ÿ9 5. Inspection and precautions after completion of installation •••••••9

ÿ Tools required for installation, protective equipment, consumables, general tools, torque wrench, protective glasses, work gloves, protective sheet

ÿ Warranty This

product is guaranteed for 1 year and 20,000km. (Until 1 year or 20,000 km running, whichever comes first) * For details of the warranty, please refer to the TRD parts catalog site https:// www.trdparts.jp/> "Warranty".

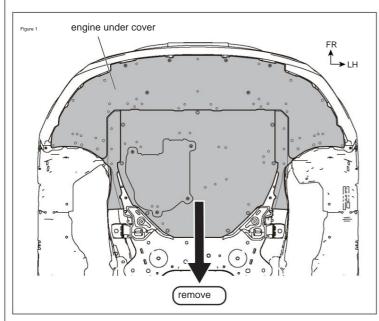
ÿ Installation diagram



ÿ Installation procedure

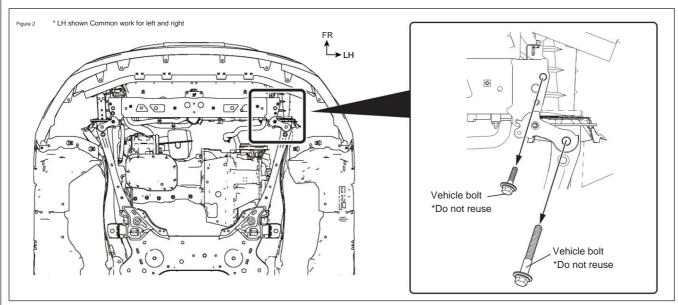
When installing the performance damper, be sure to place a screw jack in place on the underside of the vehicle.

ÿ Front performance damper installation preparation



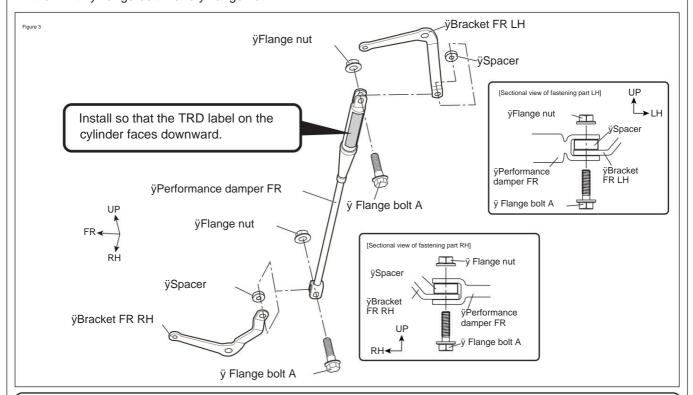
- 1. Remove the engine undercover from the vehicle according to the repair manual for the vehicle as shown in Figure 1.
 - Advice: Take care not to damage or lose the removed vehicle bolts and engine undercover, as they will be reused.

2. As shown in Figure 2, remove the vehicle bolts shown on the bottom of the vehicle. (2 places each on the left and right)



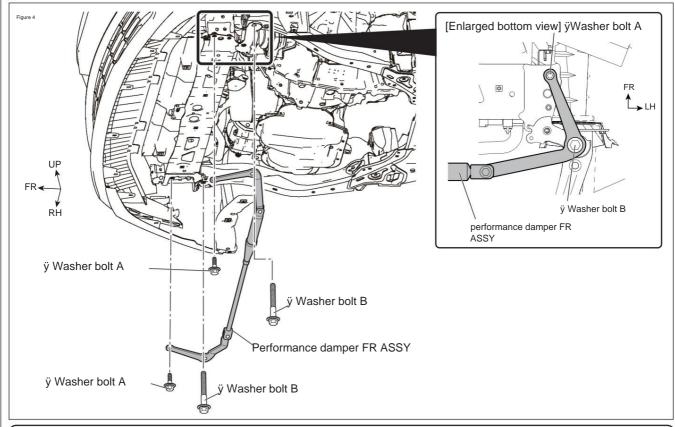
∧ Note: Removed vehicle bolts will not be reused.

- ÿ Front performance damper installation instructions
- 1. As shown in Fig. 3, align ÿ performance damper FR and ÿ spacer with the holes in ÿ bracket FR, and temporarily fix them with ÿ flange bolt A and ÿ flange nut.



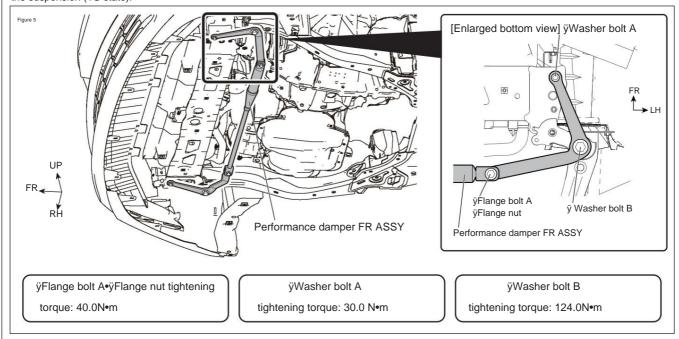
∫ ∴ CAUTION: Do not use an impact wrench.

2. As shown in Fig. 4, temporarily fix the temporarily assembled performance damper FR ASSY to the underside of the vehicle with ÿ washer bolt A and ÿ washer bolt B. (2 places each on the left and right)

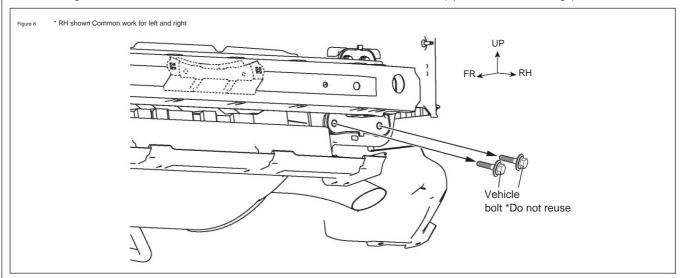


3. As shown in Fig. 5, check the mounting position and looseness, etc., and fully tighten ÿ flange bolt A, ÿ flange nut, ÿ washer bolt A, and ÿ washer bolt B to the specified torque. *Move the vehicle to a work

pit or run-on plate lift, and fully tighten the temporarily tightened bolts and nuts to the specified torque with the weight of the vehicle applied to the suspension (1G state).



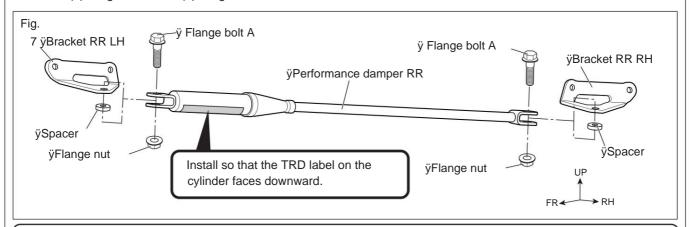
- ÿ Preparation for rear performance damper installation
- 1. Remove the rear bumper from the vehicle according to the vehicle's repair manual.
- Advice: The removed rear bumper, vehicle bolts, and vehicle clips will be reused, so store them carefully so as not to damage or lose them.
- 2. As shown in Figure 6, remove the bolts on the bottom of the base of the crash box on the underside of the vehicle. (2 places each on the left and right)



⚠ Note: Removed vehicle bolts will not be reused.

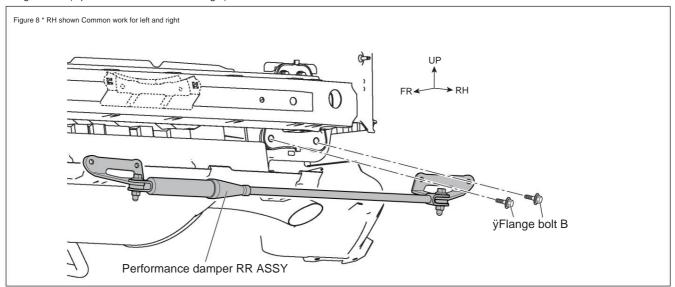
ÿRear Performance Damper Installation Instructions

1. As shown in Fig. 7, align (2) performance damper RR and (7) spacer with the holes in (4) bracket RR, and temporarily fix them with (5) flange bolt A and (6) flange nut.



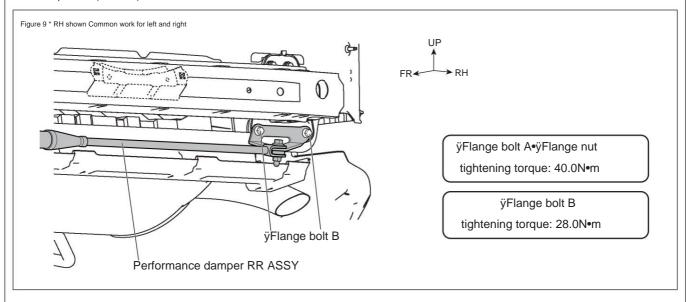
 \bigwedge CAUTION: Do not use an impact wrench.

2. Temporarily fix the temporarily assembled performance damper RR ASSY as shown in Fig. 8 to the lower side of the vehicle crash box base with ÿ flange bolt B. (2 places each on the left and right)



3. As shown in Fig. 9, check the installation position and looseness, etc., and fully tighten ÿ flange bolt A, ÿ flange nut, and ÿ flange bolt B to the specified torque. *Move the vehicle

to a work pit or run-on plate lift, and fully tighten the temporarily tightened bolts and nuts to the specified torque with the weight of the vehicle applied to the suspension (1G state).



4. Restore the engine undercover and rear bumper to the vehicle according to the repair manual for the vehicle.

ÿ List of tightening torques

Mounting	Component	size	tightening torque	
location ÿPerformance damper FR, ÿBracket	No. ÿFlange bolt A	M10×40	40.0 N•m	
FR ÿPerformance damper RR, ÿBracket RR	ÿFlange nut	M10	40.0 N•III	
Vahiala parformanas dampar ED ASSV	ÿWasher bolt A	M8×25	30.0 N•m	ÿ
Vehicle, performance damper FR ASSY	ÿWasher bolt B ÿFlange	M14×119	124.0 N•m ÿ	
Vehicle, performance damper RR ASSY	bolt B	M8×45 28.0N•m		ÿ

ÿ Inspection after installation • Precautions

1. After installation, drive for several kilometers and check that there is no interference with each part and that there is no abnormal noise. 2. It may be necessary to reconfigure or adjust the parts that have been disassembled or removed during this installation. Please check, adjust, and set each part according to the repair manual for the applicable vehicle (issued by Toyota Motor Corporation). 3. After installation, periodically (during regular inspections, etc.) check that there is no looseness in the mounting part.

> Toyota Customizing & Development Co., Ltd. TRD product inquiry desk TEL: 050-3161-2121 https:// www.trdparts.jp/