

The height adjustable sports suspension kit for circuit driving.

MAXIV SP

Code No.	Name				Price
80250-AT003	HIPERMAX MAXIVSP DB42				
Manufacturer	Model Name	Model	Model Year	Engine	
TOYOTA	GR Supra	DB42 / DB22 / DB82	2019-	B58 / B48	
Packing Dimensions	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	
Box No. 1	67	27.5	16	29.8 (2 boxes total)	
Box No. 2	67	27.5	16		
Remarks					

- Single Tube
- 30 levels Adjustable Damping
- Shock-body Length Adjustable
- Inverted type (Front)
- Pillow Upper Mount
- Special Oil
- PNE Coating
- Spec. Change Available
- Overhaul Available

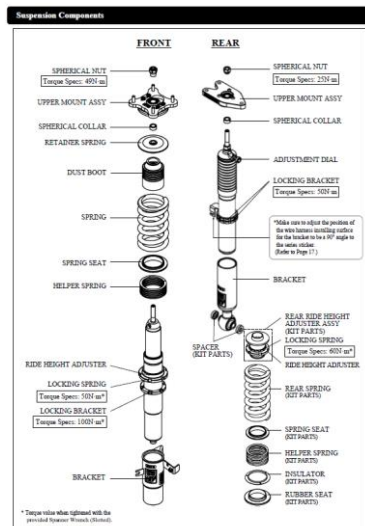


[Features]

- > This suspension utilized a conventional shock absorber rather than factory electronically controlled one and a vehicle easy to control according to the driver's intention.
- > Using the high rate spring provides a smooth ride without too stiff feeling and at the same time helps to translate a feedback from tires.
- > Adjustment type pillow upper mount allows to adjust the camber angle.
- > The billet aluminum upper plate is used at the rear. This is for weight saving without losing the necessary strength.
- > The straight wound spring is used at both front and rear allowing to easily change spring rates.

[Components]

Part List		
	Front Suspension Assy	2
	Rear Shock Absorber Assy	2
	Rear Spring	2
	Rear Ride Height Adjuster Assy	2
	Flange Nut (M8)	8
	Insulator	2
	Spring Seat	2
	Rubber Seat	2
	Helper Spring	2
	Spacer	4
	Sprocket Wrench (Standard)	1
	Warranty Certificate	1
	Sprocket Wrench (Large)	1
	Installation Guide	1



Spring rate [N/mm(kgf/mm)]	F=137(14)/R=176(16)
Spring Length (mm)	F=150(straight wound only) R=200(straight wound)
Height at factory (Upper-Lower)	RZ: F=-25(-14 to -61)/R=-25(-5 to -72) SZ-R: F=-17(-6 to -53)/R=-26(-6 to -73) SZ: F=-30(-19 to -66)/R=-31(-11 to -78)
Upper mount	F=pillow/R=pillow
Upper mount Assy before shipment	No
Spring rate change at factory	F=No / R=Yes
JAN code	4957266321768

Note:

- > For installing RZ(DB42)/SZ-R(DB22), error canceler is required due to removed factory Electronic Control Shock Absorber.
- > Ships preset to RZ(DB42). When installing to SZ-R(DB22)/SZ(DB82), please change to test data as shown in the installation manual.

● Features for HIPERMAX MAX IV SP for GR Supra



Many various developing tests have been carried out on the track at Fuji International Speedway and on the street. Mr. Manabu Orido (also known as Mr. Supra) set a 1.682s faster time on racing track at Fuji International Speedway with only suspension upgrade.



The stock front strut cannot adjust the camber angle due to it needs to be inserting the lower strut. To avoid this, using adjustment type pillow upper can make the adjustment about 1 degree from stock mount position instead. At the circuit driving, increasing negative camber decreases understeer. In addition, we used a steel plate to ensure strength.

Using HKS traditional inverted type at the front. Of course, the strut type must ensure the high rigidity but the inverted type does not necessarily mean the use of the large main shaft modifications to ensure the rigidity. This allows us to achieve smooth stroking without changing gas pressure. To ensure the stroking amount and height adjustable range, HKS designed special outer cover.

The rear upper mount used billet aluminum with laser marking and also did weight saving modifications without losing strength. Placed the adjusting dial at the bottom part of the upper mount. We recommend to jack up the vehicle when adjusting damping force, however on our test vehicle with installed ADVAN Racing GT19 inch wheels we could access adjustment dial through the wheel.