

Date:

July 2019

Description:

Old Man Emu Suspension System

Application:

Suzuki Jimny 2018 onwards

Part No. & Barcode:

Refer to table on page 3

Product Group:

Refer to table on page 3

Availability Date:

August 2019, please refer to table on page 3 for further information



Product Specification

Old Man Emu (OME) Suspension Systems:

Aftermarket 4WD suspension is extremely complex. Determining the right solution for your vehicle and your requirements demands special attention to many factors. Unlike numerous aftermarket suspension systems which are only available in a single configuration targeting lift height, OME offers a range of tuned and matched integrated suspension systems to ensure the right suspension is available to suit how the vehicle is outfitted and the conditions it will encounter.

Design and Development:

The Suzuki Jimny is a unique vehicle and suspension development for this vehicle presented different challenges to what is normally seen by the OME engineers with that of SUV's and Dual Cab Utilities. The Jimny has a short wheel base, narrow track, is lightweight and subsequently has its own set of unique handling characteristics. The OME engineers set out to develop a fun and spirited driving experience. The factory original suspension setup gave reasonable on road manners more targeted at city driving and presented opportunities to improve highway control, off road stability and off road capabilities particularly as the road surfaces got rougher. The OME engineers have developed a complete suspension solution with a new range of springs and specially tuned shock absorbers while ensuring correct vehicle geometry is maintained. The end result is a vastly improved overall ride experience being balanced, predictable and enjoyable in both on and off road environments.

Springs:

Factory geometry allowed for a 40mm lift whilst still maintaining an adequate level of droop. Two front spring options and a trim packer were chosen to cater for No Accessories, Bar and Bar/Winch vehicle setups. Spring rates have been retuned from the previous model for a better balanced ride and overall comfort whilst providing a more confident driving experience. For Bar/Winch set ups the trim packer is required to be fitted. The 10mm trim packer is also available to assist with fine tuning of ride heights

Rear springs were developed as part of the complete suspension solution. 40mm lift was achieved to match the front height and spring rate was selected to compliment the front set up options. As the payload ability is minimal the one spring option will cater for all applications. A 10mm rear trim packer is also available to assist with fine tuning of ride heights.

Shock Absorbers:

The updated shape of the Suzuki Jimny has allowed for the larger bore Nitrocharger Sport Shock Absorber to be fitted, where the previous model Jimny was developed using the smaller bore Nitro Gas range. This allowed the OME Engineers more fine tuning options, so a total revalving exercise was conducted. An extensive development and tuning project was undertaken to correctly match the ride quality to the spring rate and a more refined and controlled feel was achieved.

Caster Correction:

A Caster Correction Kit has been developed to address wheel alignment specifications to restore caster at the increased ride height. By fitting the caster kit an improvement in steering response, feel and drivability is achieved.

Rear Panhard Rod Extension Bracket:

During the ride development program some unfavourable ride qualities such as fatiguing lateral movement and unwanted head toss was present due to the increased angle of the rear panhard rod. The development of a Rear Panhard Bracket addresses the rear roll centre resulting in reduced lateral movement and a flatter, more stable ride. An extended bump stop is included in the kit to ensure adequate clearance between the panhard bracket and body components.

Headlight Sensor Bracket:

To account for the raised ride height a Headlight Sensor Bracket was developed to address headlight alignment.

Shock Absorber Specifications:

Nitrocharger Sport Part Number	Open Length (mm)	Closed Length (mm)	Upper Mount Bush Kit Part Number		Lower Mount Bush Kit Part Number	
			Original Kit	Bushes Only	Original Kit	Bushes Only
60154	440	280	SMP474	N/A	110110009	N/A
60155	515	325	110110009	N/A	110110009	N/A

Coil Specifications:

Spring Part No.	X5K Steel	Bar Dia. (mm)	Free Height (mm)		No. Of Turns	Coil Weight (kg)	Spring Rate	
			A	B			Lbf/in	N/mm
3144	X	12	370	370	9.46	2.6	146	25.5
3145	X	12	380	380	9.46	2.6	146	25.5
3146	X	11	350	340	8.7	2.0	125	22

Additional Product Information:

Part No.	Description	Barcode	Prod. Group	Availability
60154	SPORT SHOCK FRONT JIMNY 2018 ON	TBA	283	August 2019
60155	SPORT SHOCK REAR JIMNY 2018 ON	TBA	283	August 2019
3144	COIL SPRING FRONT TO SUIT SUZUKI JIMNY	9319092031740	265	August 2019
3145	COIL SPRING FRONT TO SUIT SUZUKI JIMNY	9319092031757	265	August 2019
3146	COIL SPRING REAR TO SUIT SUZUKI JIMNY	9319092031764	265	August 2019
OMECA001	CASTER KIT TO SUIT SUZUKI JIMNY	9332018067968	325	August 2019
OMESJF10	COIL PACKER FRONT TO SUIT SUZUKI JIMNY	9332018067982	325	September 2019
FK96	JIMNY PAN HARD AND BUMP STOP	9332018068194	320	August 2019
FK97	HEADLIGHT SENSOR KIT TO SUIT SUZUKI JIMNY	9332018068200	320	August 2019
OMESJR10	COIL PACKER JIMNY-REAR-	9332018037176	325	Now

SUZUKI

JIMNY 2018 ON (4TH GEN)

FRONT <i>Estimated Lift: 40mm</i>	4 CYL. 1.5L PETROL ENGINE		
	PART NUMBER	QTY	
SPRING: NO BAR	3144	1	
NITROCHARGER SPORT	60154	2	
SPRING: BAR ONLY	3145	1	
NITROCHARGER SPORT	60154	2	
SPRING: BAR / WINCH	3145 1	1	
NITROCHARGER SPORT	60154	2	
TRIM PACKER	OMESJF10		
CASTOR CORRECTION	OMECA001 2	1	

REAR <i>Estimated Lift: 40mm</i>	ALL MODELS		
	PART NUMBER	QTY	
SPRING: MEDIUM LOAD	3146	1	
NITROCHARGER	60155 3	2	
TRIM PACKER	OMESJR10		
PANHARD ROD EXTENSION BKT KIT - RIGHT HAND DRIVE	FK96 4	1	
HEADLIGHT SENSOR KIT	FK97	1	

REMARKS:

- 1 OMESJF10 must be used on each 3145 coil for BAR/WINCH, ie qty x2 required.
- 2 Fit OMECA001 to restore castor wheel alignment.
- 3 Headlight Sensor Fitting Kit FK97 is required when fitting all OME extended travel rear shocks.
- 4 Fit FK96 to improve ride quality, not mandatory fitment.