



Kit Contents

	Description	Part No	Pcs
1	Shock absorber	SUS 1P20 & 2P20	2
2	Dust boot	10216-02	2
3	Plastic spring spacer	25602-01	2
4	Spring		2
5	Rubber spring spacer	25601-01	2
6	Upper spring seat	24637-01	2
7	Spacer	24629-40	2
8	Nut M12	95702-12	2
9	ABS cord clamp	24624-01	2
10	Nut flange (M8)	04777-02	2
11	Bolt (M6)	24617-01	2
12	Spacer	24629-17	2
13	C-spanner	24639-01	1
14	C-spanner	24639-03	1
15	Öhlins sticker kit	10207-01	1
16	Öhlins Owners manual	07451-01	1

👁 Note!

Please note that there can be small differences between your product and the images in these instructions.

👁 Note!

Please note that during storage and transport, especially at high ambient temperature, some of the oil and grease used for assembly may leak and stain the packaging. This will not cause damage to the product, wipe off the excessive oil or grease with a cloth.

👁 Note!

Before you install this product, check the kit contents. If anything is missing, please contact an Öhlins dealer.

⚠ Warning!

Before you install this product, read the Öhlins Owner's manual. This product is an important part of the vehicle and the vehicle stability.

Shock Absorber Kit for Subaru BRZ (ZC6), Toyota GT86 (ZN6)

SUS MP21 FRONT

Mounting Instructions



MOUNTING INSTRUCTIONS

⚠ Warning!

It is advisable to have an Öhlins dealer install the shock absorber.

When installing, read your Vehicle Service Manual.

1

Raise the vehicle and put it on jack stands.

⚠ Warning!

Ensure that it is securely supported.

2

Remove the front wheels.

3

Loosen the bolts for the lower strut attachments.

🖐 Caution!

Support the wheel hubs in an appropriate way on each side of the vehicle so that the brake hose and/or drive shaft joint can not be damaged.

4

Loosen the upper attachment. Remove the original struts from the car.

5

Remove the brake hose brackets from the standard struts.

6

Cut the dust boot 40 mm from the lower end with a pair of scissors according to fig 2.

7

Fit the dust boot (2), the plastic spring spacer (3), the spring (4), the rubber spring spacer (5) the upper spring seat (6), the spacer (7), the OE top mount and tighten the M12 nut (8) to 35-40Nm to the strut according to fig 1.

Solid top mount with camber adjustment is available as option (part number 25633-43 for left front and 25633-44 for right front (see fig 4). Note that the camber should be set at "0" for road use. Height of the vehicle is needed to be reset when changing to solid top mounts.

Fig. 1

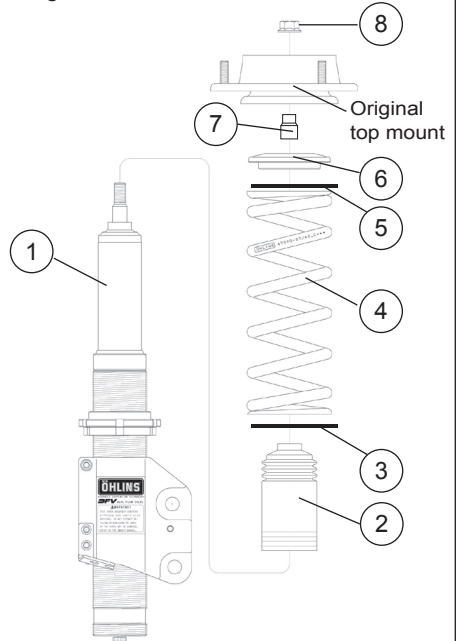
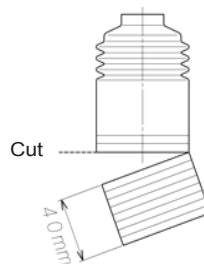


Fig. 2



MOUNTING INSTRUCTIONS

👁 **Note!**

When tightening the top mount nut, the shock absorber shaft must be held in position with a 5 mm Allen key.

8

Adjust the lower spring seat and the lock ring position according to fig 5 and tighten to 50 - 60 Nm with the c-spanners.

9

Install the Öhlins McPherson struts on the vehicle.

10

Fasten the upper attachments.

11

Raise the wheel hub with a jack to remove the freeplay of the lower strut attachment bolts before tightening them.

12

Tighten the lower strut attachment bolts to 10-15Nm.

13

Mount the ABS cord clamp to the Öhlins struts. Tighten the M6 bolts to 6 Nm. Fix the ABS cord by bending the ABS cord clamp according to fig 3.

14

Mount the standard stabilizer links with the spacer (t10).

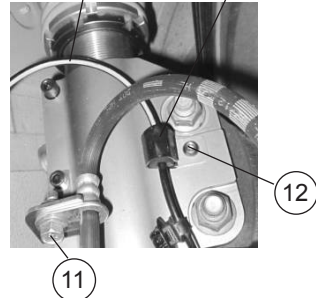
👁 **Note!**

Make sure that all bolts are tightened to the correct torque and that nothing fouls or restricts movement of the strut when it is being fully compressed or extended. Test this over the whole steering range from lock to lock.

15

Make sure that all removed parts are reinstalled in the same way as they were before the installation of the Öhlins shock absorber.

Fig. 3 ABS cord



🚫 **Caution!**

Assemble this spacer (t10) between the bracket and the stabilizer link.

Original nut Spacer

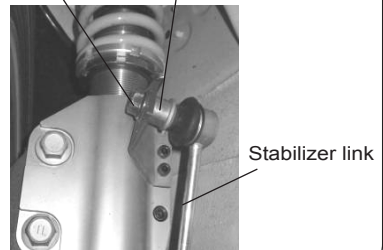
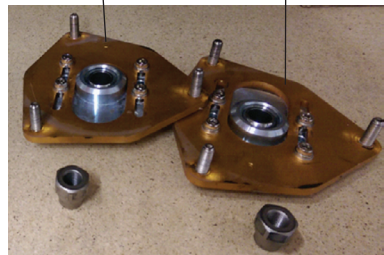


Fig. 4 Left front: 25633-43 Right front: 25633-44



ADJUSTMENTS

⚠ Warning!

Before you ride/drive, always make sure that the setup is according to the recommended setup data. Read about adjustments and setting up in the Öhlins Owner's Manual before you make any adjustments. Contact an Öhlins dealer if you have any questions about setting up.

The standard spring preload is 20 mm from a free length of 200 mm, giving 180 mm installed length, see fig 5.

👁 Note!

Installed spring length is measured length of the spring – the spring preload.

SETUP DATA

Recommended set-up

Click setting		
Track	0-7	clicks
Winding road	5-10	clicks
Street	10-20	clicks
Spring preload	20	mm

Recommended spring

48010-11 (50N/mm)

Vehicle height adjustment range

With both the spring preload and height adjustments in their recommended positions, the vehicle is lowered approximately 20 mm

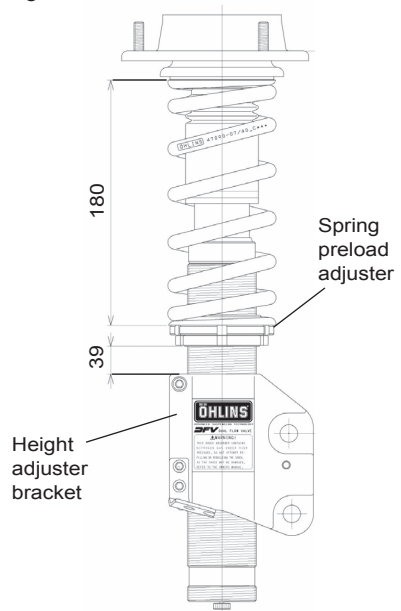
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Part no. MI_SUSMP21_0
Issued 2018-01-30
Updated: 2018-11-01

Fig. 5



when compared to the original suspension. The spring preload adjustment range is 2-30 mm. Giving approximately 10-35 mm lower ride height of the car.

⚠ Warning!

The adjustment range for the height adjuster bracket is ± 10 mm from its recommended position. If the bracket is moved outside the adjustment range, it may come loose or the wheel may hit the wheel house.

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Kit Contents

	Description	Part No	Pcs
1	Shock absorber	SUS 6P20	2
2	Dust boot	10216-01	2
3	Plastic seat	25602-01	2
4	Spring		2
5	Spring seat	25618-11	2
6	Spacer	24629-26	4
7	Lock nut M10	24627-01	2
8	Adjuster	24631-04	2
9	Bushing spacer	24629-06	4

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👁 Note!

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⚠ Warning!

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Shock Absorber Kit for Subaru BRZ (ZC6), Toyota GT86 (ZN6)

SUS MP21 REAR

Mounting Instructions



MOUNTING INSTRUCTIONS

⚠ Warning!

It is advisable to have an Öhlins dealer install the shock absorber.

When installing, read your Vehicle Service Manual.

1

Raise the vehicle and put it on jack stands.

⚠ Warning!

Ensure that it is securely supported.

2

Remove the rear wheels.

3

Remove the lower and the upper attachments and remove the original shock absorbers.

4

Cut the dust boot 92 mm from the lower end with a pair of scissors according to fig 1.

5

Fit the two bushing spacers (9) to the shock, the dust boot (2), the plastic seat (3), the spring (4), the spring seat (5), the spacer (6), the OE top mount, the spacer (6) and the lock nut (7) according to fig 2. Tighten the lock nut to 20 Nm. Fit the adjuster to the damper according to fig 2 and tighten to 10 Nm.

Solid top mount is available as option (part number 25633-45 see fig 3). Note that you need two pieces for one car. Height of the vehicle is needed to be reset when changing to solid top mounts.

6

Position the spring seat and height adjuster according to fig 5 and tighten the lower spring seat and the lock ring to 50 - 60 Nm with the c-spanners.

👁 Note!

When tightening the top mount nut, the shock absorber shaft must be held in position with a 4 mm Allen key.

👁 Note!

For one kit you need two top mounts with bearings.

Fig. 1

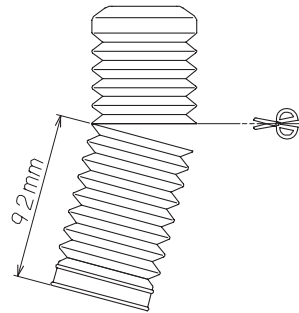


Fig. 2

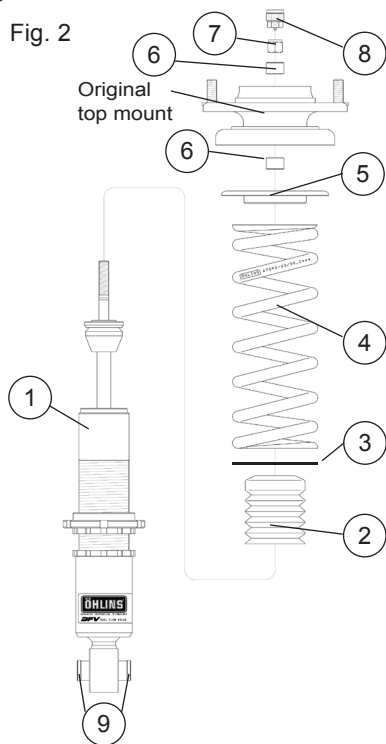


Fig. 3



MOUNTING INSTRUCTIONS

6

Install the Öhlins shock absorbers on the vehicle.

7

Fasten the upper attachments.

👁 **Note!**

Make sure that all bolts are tightened to the correct torque and that nothing fouls or restricts movement of the absorber when it is being fully compressed or extended.

8

Make a $\text{Ø}20$ hole in the side panel according to fig 4, and install the adjuster.

9

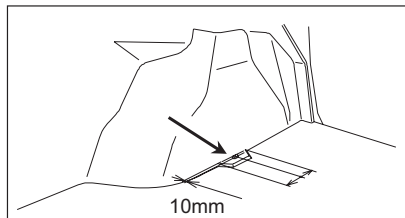
Make sure that all removed parts are reinstalled in the same way as they were before the installation of the Öhlins shock absorber.

Fig. 4

Left side of vehicle body inside trunk room.



Make a $\text{Ø}20$ mm hole in the side panel in the shown position.



Make a $\text{Ø}20$ mm hole in the center of the lip.

ADJUSTMENTS

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The standard spring preload is 20 mm mm from a free length of 200 mm, giving 180 mm installed length, see fig 5.

👁 Note!

Installed spring length is measured length of the spring – the spring preload.

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Recommended spring

48010-11 (50N/mm)

Vehicle height adjustment range

With both the spring preload and height adjustments in their recommended positions, the vehicle is lowered approximately 20 mm when compared to the original suspension.

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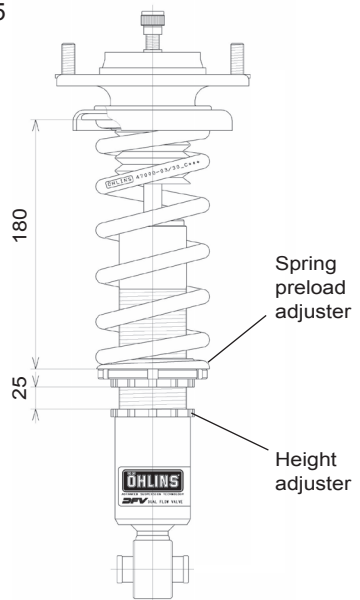
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Issued 2018-01-30
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Fig. 5



The spring preload adjustment range is 2-30 mm. Giving approximately 10-35 mm lower ride height of the car.

⚠ Warning!

The adjustment range for the height adjuster is ± 10 mm from its recommended position. If the bracket is moved outside the adjustment range, it may come loose or the wheel may hit the wheel house.



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