# **Adjustments**

# ▲ Warning!

Before driving, always make sure that the basic settings made by Öhlins are according to recommended Set-up 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 shock absorber.

The standard preload is 6 mm from a free length of 200 mm, giving 194 mm installed length, see fig 2.

# **Set-up Data**

#### Recommended set-up

Rebound 10 clicks Spring preload 6 mm Shock absorber length 438 mm Spring

Spec

H200. ID65. 80N/mm

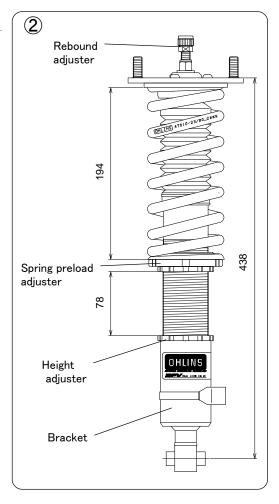
#### The actual vehicle height

With both the preload and height adjustments in their standard positions, the vehicle is lowered approximately 20 mm when compared to the original suspension. As the height adjuster is turned one rotation, the position moves 1.5 mm.

# ▲ Warning!

may occur.

The adjustment range is the standard position -17 to +5 mm. If the bracket is moved outside the adjustment range, it may come loose.





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

Kit Contents	Pcs.
Shock absorber	2
Dust boot	2
Top mount	2
Bearing spacer 1 (with flange)	(2)
Bearing spacer 2 (L=20mm)	(2)
Rubber seat	(2)
Spring	2
Lock nut M10	2
MOUNTED ON SHOCK ABSOF	RBER
Adjuster	2
USED FOR BOTH FRONT AND	REAR
C-spanner	1
C-spanner	1
Öhlins sticker	1
Öhlins Owner's Manual	1

Please note that during storage and transportation, especially at high ambient temperature, some of the oil and grease used for assembling may leak and stain the packaging. This is in no way detrimental to the product, wipe off the excess oil/grease with a cloth.

# ▲ Warning!

Before installing this product, read the Öhlins Owner's Manual. The shock absorber is an important part of your vehicle and will affect the stability.

Ohlins products are subject to To find the latest information contact continuous improvement and vour Öhlins distributor. Please development, therefore, although consult your Öhlins dealer if you these instructions include the most have any questions regarding the up-to-date information available at the time of printing, minor updates

contents in this document. Part no. MAS MI20 2





Shock Absorber Kit for Mazda Roadster / MX / Miata (NA,NB)

# MAS MI20 front

**Mounting Instructions** 

Öhlins Racing AB

Issued 2012-05-28



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# **▲** Warning!

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

When installing, read your Vehicle Service Manual.



Raise the vehicle and put it on jack stands.

# **▲** Warning!

Ensure that it is securely supported.

# 2

Remove the front wheels.

3

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

4

Tighten the lower spring seat and the lock ring to 50 - 60 Nm

Fit the bearing spacers, the dust boot, the spring, the rubber seat, the top mount and the adjuster according to fig ①.

Tighten the lock nut to 20 Nm.

#### Note!

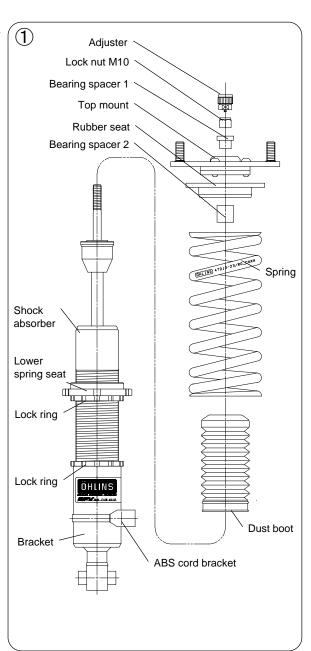
When tightening the top mount nut, the shock absorber shaft must be held in position with a 4 mm Allen key.

# 5

Install the Öhlins shock absorbers on the vehicle.

6

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 shock absorber when it is being fully compressed or extended.

# 7

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

# Adjustments

# ▲ Warning!

Before driving, always make sure that the basic settings made by Öhlins are according to recommended Set-up 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 shock absorber.

The standard preload is 12 mm from a free length of 180 mm, giving 168 mm installed length, see fig 3.

# **Set-up Data**

#### Recommended set-up

Rebound 10 clicks Spring preload 12 mm Shock absorber length 351 mm Spring

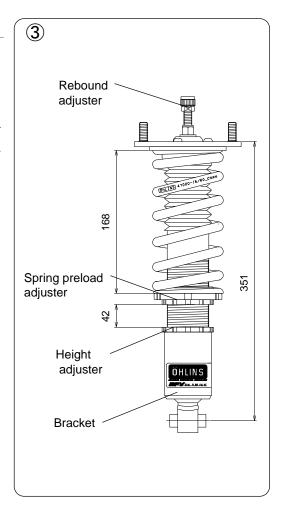
Spec H180, ID65, 60 N/mm

#### The actual vehicle height

With both the preload and height adjustments in their standard positions, the vehicle is lowered approximately 20 mm when compared to the original suspension. As the height adjuster is turned one rotation, the position moves 1.5 mm.

# ▲ Warning!

The adjustment range is the standard position -10 to +15 mm. If the bracket is moved outside the adjustment range, it may come loose.





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

Kit Contents	Pcs.
Shock absorber	2
Dust boot	2
Top mount	2
Bearing spacer 1 (with flange)	(2)
Bearing spacer 2 (L=6mm)	(2)
Rubber seat	(2)
Spring	2
Lock nut M10	2
MOUNTED ON SHOCK ABSOR	RBER
Adjuster	2
USED FOR BOTH FRONT AND	REAR
C-spanner	1
C-spanner	1
Öhlins sticker	1
Öhlins Owner's Manual	1

Please note that during storage and transportation, especially at high ambient temperature, some of the oil and grease used for assembling may leak and stain the packaging. This is in no way detrimental to the product, wipe off the excess oil/grease with a cloth.

# ▲ Warning!

MAS MI20 rear

Shock Absorber Kit for Mazda Roadster / MX / Miata (NA.NB)

Before installing this product, read the Öhlins Owner's Manual. The shock absorber is an important part of your vehicle and will affect the stability.

Ohlins products are subject to To find the latest information contact continuous improvement and development, therefore, although these instructions include the most up-to-date information available at the time of printing, minor updates may occur.

vour Öhlins distributor. Please consult your Öhlins dealer if you have any questions regarding the contents in this document.

> Part no. MAS MI20 2 Issued 2012-05-28





Öhlins Racing AB



**Mounting Instructions** 





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# ▲ Warning!

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

When installing, read your Vehicle Service Manual.



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 62 mm from the lower end with a pair of scissors according to fig ②.

#### 5

Tighten the lower spring seat and the lock ring to 50 - 60 Nm

Fit the bearing spacers, the dust boot, the spring, the rubber seat, the top mount and the adjuster according to fig①.

Tighten the lock nut to 20 Nm.

#### Note!

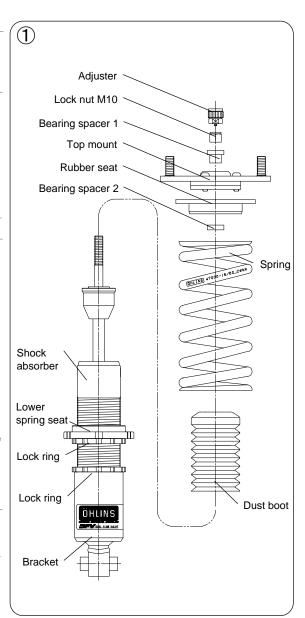
When tightening the top mount nut, the shock absorber shaft must be held in position with a 4 mm Allen key.

#### 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 shock absorber when it is being fully compressed or extended.

# 8

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

