

## DFV | Club Race Damper Set Setup Addendum



This Öhlins damper set features adjustable shock length and spring preload. These independent adjustments provide significant tuning flexibility, but incorrect use will result in poor performance—even if ride height appears correct.

This addendum outlines the correct setup process for establishing shock length and spring preload.

---

### Key Concepts

#### **Shock Length — Sets Maximum Compression Travel**

Determines how far the tire can travel into the fender.

- Shorter → More compression travel → Increased risk of contact and over traveling
- Longer → Less compression travel → Acts as a mechanical limit

Must be set based on actual vehicle (e.g. modified fenders, tire size, travel limitations, etc.).

#### **Spring Preload — Sets Ride Height & Balance**

Used to set ride height and corner balance.

- Does **not** control suspension travel
  - Must not compensate for incorrect shock length
- 

### Setup Procedure

#### **1 — Set Shock Length (First)**

- Install damper with loose length adjuster **without spring or bumpstop** (if possible)
- Install wheel/tire and fully compress suspension to bottom-out
- Check total tire clearance

Adjust length to eliminate contact while maximizing travel.

Suggested length is a starting point only and must be verified on the vehicle.

#### **2 — Set Spring Preload**

- Install spring package
  - Adjust preload for ride height
  - Finalize with corner balancing
- 

### Spring Package Requirements

- Main spring alone may be loose at full droop (normal for higher spring rates)
- **Helper spring may be required** to maintain seating

**Critical:** Total available spring travel (main + helper) remaining after preload, must **exceed damper stroke** to prevent coil bind. Damper strokes listed in mounting instruction.



# Installation & Setup Record



Vehicle Suspension Installation & Initial Setup Documentation to be given to the installer to complete.

|                  |                    |               |                |
|------------------|--------------------|---------------|----------------|
| Vehicle Year     | Make               | Model         | VIN (Optional) |
| Product Part No. | Installer / Dealer | Install Date  | Mileage        |
| Wheel/Tire Setup | Alignment Notes    | Customer Name | Phone/Email    |

## 1. Original Ride Height Measurements

Measure vertically from wheel center to fender lip on level ground with proper tire pressures set.

|         |         |         |         |
|---------|---------|---------|---------|
| LF      | RF      | LR      | RR      |
| mm / in | mm / in | mm / in | mm / in |

## 2. Compressed Shock Length Comparison

Measure top of mount to center of hardware with shock compressed and bumpstop removed where applicable. Otherwise, take bumpstop length into account.

|       |           |              |
|-------|-----------|--------------|
|       | OEM Shock | Öhlins Shock |
| Front | mm        | mm           |
| Rear  | mm        | mm           |

**Note:** Some applications may not allow bump stop removal due to internal bump stop design or integrated strut construction.

## 3. Initial Damper Settings

Measured from full stiff: turn adjuster fully clockwise, then back off desired number of clicks.

|        |        |        |        |
|--------|--------|--------|--------|
| LF     | RF     | LR     | RR     |
| clicks | clicks | clicks | clicks |

## 4. Spring Rate and Preload

Measure spring package length on the bench excluding hardware after preloaded.

|            |              |         |    |
|------------|--------------|---------|----|
| Front Rate | N/mm / lb/in | Preload | mm |
| Rear Rate  | N/mm / lb/in | Preload | mm |

## 5. Final Installed Setup

Final ride height after installation and corner balance.

|         |         |         |         |
|---------|---------|---------|---------|
| LF      | RF      | LR      | RR      |
| mm / in | mm / in | mm / in | mm / in |

**Important Information:** This product is intended for off-road use only and not intended for street use. For installation, setup, ride height, fitment, or clearance questions, contact the installing dealer or the authorized Öhlins dealer the product was purchased from. Vehicle ride height, wheel/tire fitment, alignment settings, and suspension travel clearance are the responsibility of the installer.

|                     |                        |
|---------------------|------------------------|
| Installer Signature | Customer Signature     |
| Date                | Customer Copy Retained |
|                     | Yes / No               |

[illegible]



☐ **Note!** Springs are not included. A custom package must be specified separately in collaboration with an authorized Öhlins dealer. The installer is responsible for verifying proper fitment and safe operation.

| Kit Contents |                          |           |     |
|--------------|--------------------------|-----------|-----|
| Pos          | Description              | Part No   | Pcs |
| 1            | Shock absorber           | TBD       | 2   |
| 2            | Lock nut M14             | 24618-03  | 2   |
| 3            | Dust Boot                | 10216-01  | 2   |
| 4            | Plastic spring spacer    | 25602-01  | 2   |
| 5            | Spring                   | Not Incl. | 0   |
| 6            | Top mount                | 25633-35  | 2   |
| 7            | Flange spacer            | 05688-20  | 2   |
| 8            | Top mount spacer (16 mm) | 05688-10  | 2   |
| 9            | Rubber spring seat       | 25618-44  | 2   |
| 10           | Lock nut M10             | 24627-01  | 2   |
| 11           | Adjustment knob          | 24631-04  | 2   |
| 12           | Bolt M6                  | 24628-02  | 2   |
| 13           | Nut M6                   | 24628-03  | 2   |
| 14           | C-spanner                | 24639-01  | 1   |
| 15           | C-spanner                | 24639-04  | 1   |
| 16           | Öhlins sticker kit       | 10207-01  | 1   |
| 17           | Öhlins Owner's 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.

☐ **Note!**

Damper sets are off-road use only.

Club Race | DFV Damper Set for Honda S2000

**U40018-01** FRONT

Mounting Instructions



**ÖHLINS**

# MOUNTING INSTRUCTIONS

## ⚠ Warning!

We strongly recommend to let an Öhlins dealer install this product.

## ⚠ Warning!

If you work with a lifted vehicle, make sure that it is safely supported to prevent it from tipping over.

## □ Note!

When you work with this product, see the vehicle service manual for vehicle specific procedures and important data.

## □ Note!

Before you install this product clean the vehicle.

1

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

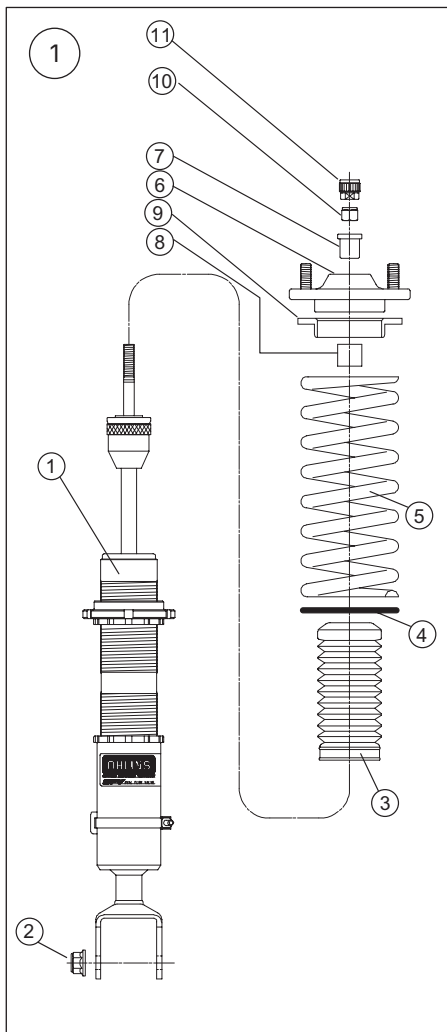
Tighten the lower spring seat and lock nut to 50-60 Nm. Fit the dust boot (3), the plastic spring spacer (4), the spring (5), the top mount spacer (8), the top mount (6) and rubber spring seat (9), the flange spacer (7) and the M10 lock nut (10) according to fig 1. Tighten the M10 lock nut to 20 Nm and mount the adjuster and tighten to 10 Nm.

## □ Note!

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

5

Set the spring preload and length adjuster according to recommendations on Page 4. Tighten the lower spring seat and lock nut to 50-60 Nm.



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

8

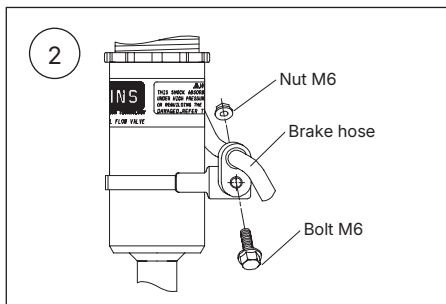
Mount the brake hose to the brake hose bracket on the Ohlins damper. Use the supplied M6 bolt and nut. Tighten the nut to 6 Nm according to fig 2.

9

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

## ☐ 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.*



# ADJUSTMENTS

## Shock Length (Sets Bottom-Out Point)

Start with a shock length of 536 mm (top of mount to lower clevis bolt).

For setup, install the damper with the length adjuster nut loose and the spring and bump stop removed, then fully compress the suspension until the shock bottoms out. Check tire clearance at this point.

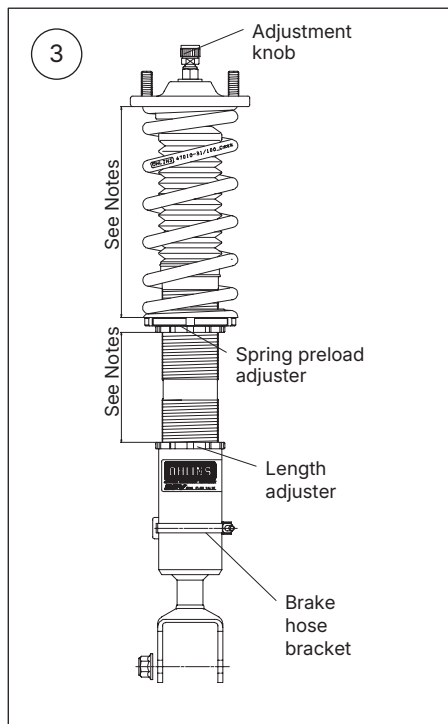
If contact occurs, lengthen the shock. If additional upward travel is desired and clearance allows, the shock may be shortened at installer discretion.

## Spring Preload (Sets Ride Height)

After shock length is set, use spring preload to set ride height and corner balance.

With the high spring rates this kit is tuned for, the main spring may be loose at full droop (car lifted). A helper spring is required to keep the spring seated.

Target approximately 60% bump / 40% droop (~62 mm at wheel). This is a guideline, not exact.



# SETUP DATA

|                       |     |        |
|-----------------------|-----|--------|
| Spring package stroke | >91 | mm     |
| Minimal spring rate   | 120 | N/mm   |
| Maximum spring rate   | 150 | N/mm   |
| Clicker range         | 20  | clicks |
| Target droop at wheel | 62  | mm     |

## **⚠ Warning!**

*The shock adjustment range is limited to the thread indication line on the threaded shock body. Do not drive the car with this extended limit line exposed.*

Öhlins products are subject to 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.

To find the latest information contact an Öhlins distributor. Please contact Öhlins if you have any questions regarding the contents in this document.

Part no. MI\_U40081-01\_1  
Issued 2026-02-26

© Öhlins Group AB. All rights reserved. Any reprinting or unauthorized use without the written permission of Öhlins Group AB is prohibited.

Öhlins Group AB  
Box 722  
S-194 27 Upplands Väsby, Sweden  
Phone +46 8 590 025 00  
fax +46 8 590 025 80





| Kit Contents |                         |           |     |
|--------------|-------------------------|-----------|-----|
| Pos          | Description             | Part No   | Pcs |
| 1            | Lock nut M14            | 24618-03  | 2   |
| 2            | Shock absorber          | TBD       | 2   |
| 3            | Dust boot               | 10216-01  | 2   |
| 4            | Plastic spring spacer   | 25602-01  | 2   |
| 5            | Spring                  | Not Incl. | 0   |
| 6            | Top mount               | 25633-36  | 2   |
| 7            | Flange spacer           | 05688-20  | 2   |
| 8            | Top mount spacer (6 mm) | 05688-11  | 2   |
| 9            | Rubber spring seat      | 25618-44  | 2   |
| 10           | Lock nut M10            | 24627-01  | 2   |
| 11           | Adjustment knob         | 24631-04  | 2   |

#### ☐ 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.

## Club Race | DFV Damper Set for Honda S2000

# U40018-01 REAR

## Mounting Instructions



# ÖHLINS

# MOUNTING INSTRUCTIONS

## ⚠ Warning!

We strongly recommend to let an Öhlins dealer install this product.

## ⚠ Warning!

If you work with a lifted vehicle, make sure that it is safely supported to prevent it from tipping over.

## □ Note!

When you work with this product, see the vehicle service manual for vehicle specific procedures and important data.

## □ Note!

Before you install this product clean the vehicle.

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

5

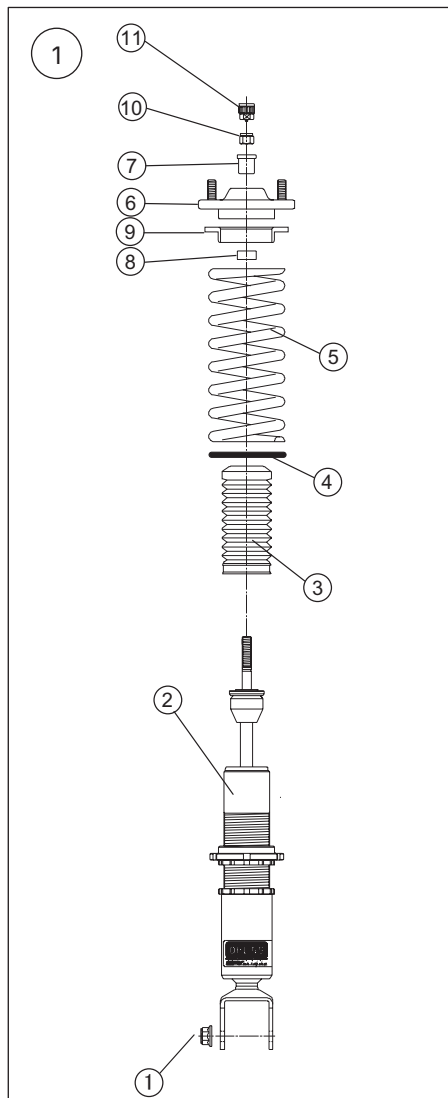
Fit the dust boot (3), the plastic spring spacer (4), the spring (5), the top mount spacer (8), the top mount (6) and rubber spring seat (9), the flange spacer (7) and the M10 lock nut (10) according to fig 1. Tighten the M10 lock nut to 20 Nm and mount the adjuster and tighten to 10 Nm.

## □ Note!

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

6

Set the spring preload and length adjuster according to notes on Page 4. Tighten the lower spring seat and lock nut to 50-60 Nm.



7

Install the Öhlins shock absorbers on the vehicle.

8

Fasten the upper attachments.

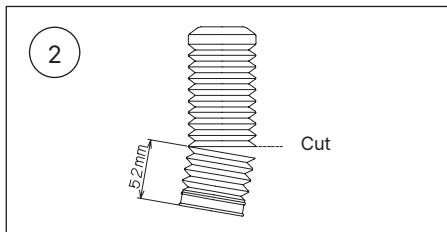
# MOUNTING INSTRUCTIONS

## ☐ 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.*

9

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



# ADJUSTMENTS

## Shock Length (Sets Bottom-Out Point)

Start with a shock length of 409 mm (top of mount to lower clevis bolt).

For setup, install the damper with the length adjuster nut loose and the spring and bump stop removed, then fully compress the suspension until the shock bottoms out. Check tire clearance at this point.

If contact occurs, lengthen the shock. If additional upward travel is desired and clearance allows, the shock may be shortened at installer discretion.

## Spring Preload (Sets Ride Height)

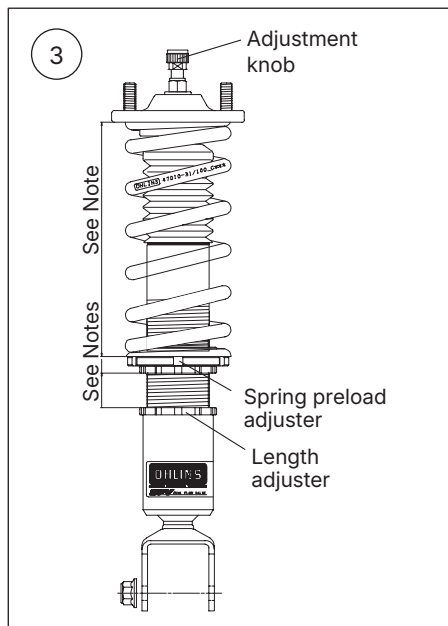
After shock length is set, use spring preload to set ride height and corner balance.

With the high spring rates this kit is tuned for, the main spring may be loose at full droop (car lifted). A helper spring is required to keep the spring seated.

Target approximately 60% bump / 40% droop (~57 mm at wheel). This is a guideline, not exact.

# SETUP DATA

|                       |     |        |
|-----------------------|-----|--------|
| Spring package stroke | >82 | mm     |
| Minimal spring rate   | 100 | N/mm   |
| Maximum spring rate   | 130 | N/mm   |
| Clicker range         | 20  | clicks |
| Droop at wheel        | 57  | mm     |



## ⚠ Warning!

*The shock adjustment range is limited to the thread indication line on the threaded shock body. Do not drive the car with this extended limit line exposed.*

Öhlins products are subject to 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.

To find the latest information contact an Öhlins distributor. Please contact Öhlins if you have any questions regarding the contents in this document.

Part no. MI\_U40018-01\_1  
Issued 2026-02-26

© Öhlins Group AB. All rights reserved. Any reprinting or unauthorized use without the written permission of Öhlins Group AB is prohibited.

Öhlins Group AB  
Box 722  
S-194 27 Upplands Väsby, Sweden  
Phone +46 8 590 025 00  
fax +46 8 590 025 80

