

131BW002N1

**BMW M3 (RWD/AWD)
G80**

**BMW M4 (AWD)
G82**

ASP

ADJUSTABLE SPRING PERCH

BC



Thank you for purchasing the BC Racing A.S.P.
Please read this instruction guide carefully before proceeding with install.

BC Part Number	131BW002N1	
Vehicle	BMW M3 (AWD)	BMW M4 (AWD)
Model/Chassis	G80	G82
Year	2021+	2021+
Min. Ride Height from OEM	FRONT -35mm	FRONT -35mm
	REAR -35mm	REAR -35mm
TIRE SIZE FRONT	275/40/18	275/40/18
TIRE SIZE REAR	285/35/19	285/35/19

▲ All vehicle lowering data is for reference only and may vary depending on individual vehicle conditions.

⚠ Disclaimer

The BC Racing ASP is designed and intended to lower a vehicle’s ride height. The use of this product on public roadways may not meet local, state, or federal regulations. Installation and use of this product may affect the vehicle’s original manufacturer’s warranty. It is the consumer’s responsibility to meet and comply with federal, state, or local government regulations and/or policies prior to operating the vehicle on public roadways.



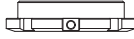
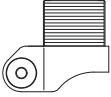


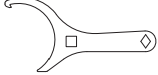
ATTENTION!!

Removal of OEM components from damper assemblies and installation of this product may only be undertaken by trained technical personnel with ASE certification.




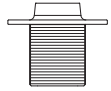
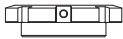



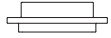


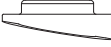
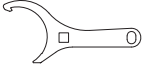
Incorrect installation/adjustment can damage OEM Dampers or other OEM components, which we are not able to supply. Installers shall be responsible for any damage due to incorrect installation or adjustment.

Parts List

FRONT

SA11-0031-22		BUMPSTOP	2
1-SPS-2104.5-A2		SPRING	2
SG09-1100		LOCKING RING	2
SG07-2215		SPRING PERCH	2
SA15-6004		M6 SET SCREW	2
SA15-6002		M5 SET SCREW	4
SG12-0065		SPANNER	1

REAR

SA11-2019		DUST COVER	2
SA11-0030-18		BUMPSTOP	2
SA05-1041		UPPER RUBBER PAD	2
SG07-2216		SPRING PERCH	2
SG09-1105		LOCKING RING	2
SA15-6004		M6 SET SCREW	2
SA05-2002		INSULATOR	2
1-SP-22014-A1		SPRING	2
SA09-1216		SPRING ADAPTOR	2
1-SP-0680.45-A1		HELPER SPRING	2
SA09-1217		HELPER SPRING SEAT	2
SA05-1106		BOTTOM RUBBER PAD	2
SG12-0066		SPANNER	1

Before Installation



CAUTION

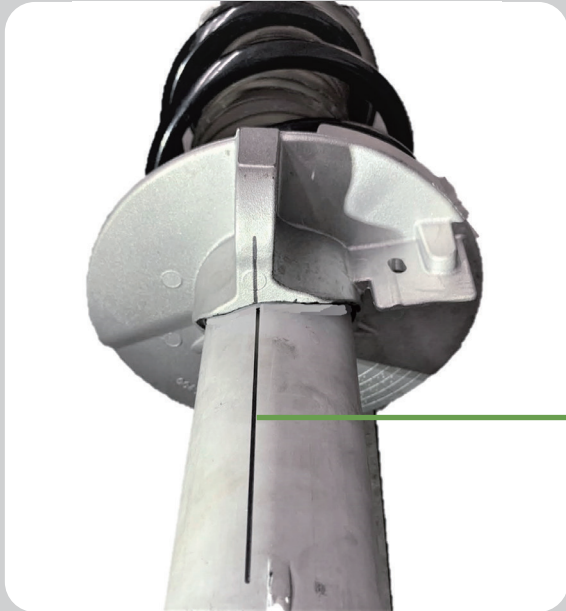
- This product was designed and developed for specific vehicle models and should only be installed on the intended application. Ensure you received the correct items for your vehicle before attempting installation.
- No part of this instruction may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without express written permission from Taiwan Bor-Chuann Enterprise Co., Ltd.
- **This product may only be installed by trained technical personnel with ASE certification.**
- Do not use impact wrenches to install or remove damper/shock absorber hardware.
- Installation and removal of suspension components including dampers and springs must be in accordance with the original manufacturer's specifications. Please refer to the factory service manual if available.
- BC (Taiwan Bor-Chuann Enterprise Co., Ltd) is not liable for any damages and/or failures caused by the use of components not supplied by BC (Taiwan Bor-Chuann Enterprise Co., Ltd).
- Incorrect installation or adjustment can cause noise and/or damage to the product, which will not be covered by warranty.

ARROW INDICATION

- INSTRUCTION
- BC SUPPLIED ASP PARTS
- OEM PARTS

Installation FRONT

1



- Mark a center line from the end link tab down to the damper body. The center line will work as a visual reference to help align the spring perch correctly.

2

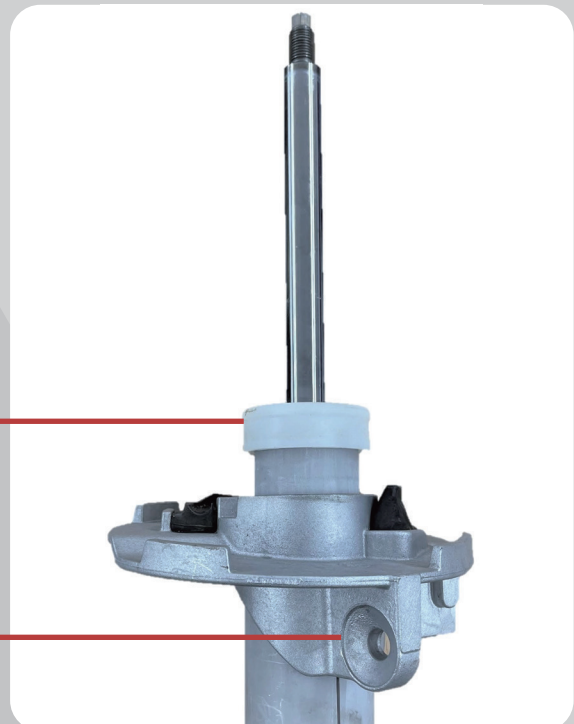
Remove the OEM top mount, OEM spring, OEM dust cover and OEM bump stop.

3

Remove the OEM damper cap and OEM spring perch/end link tab.

OEM damper cap ●

Spring perch/end-link tab ●



4

Clean the surface of the area above the center line you just drew.



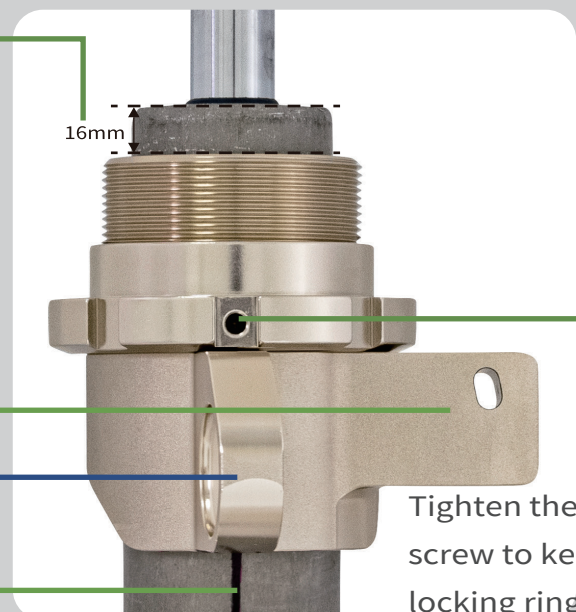
center line

5

Slide the adjustable spring perch (side specific) over the damper body and make sure the end link tab aligns with the drawn center line.

6

Loosen the two M5 set screws and then slide the adjustable spring perch all the way down till it gets stuck and can not go any lower. It is around 16mm on M4 G82 and may vary on M3 G80, measured from the top edge of the OEM damper body to the adjustable spring perch. Tighten the two M5 set screws after installation of the spring perch. (Always use a rubber mallet when installing the spring perch to the required depth.)



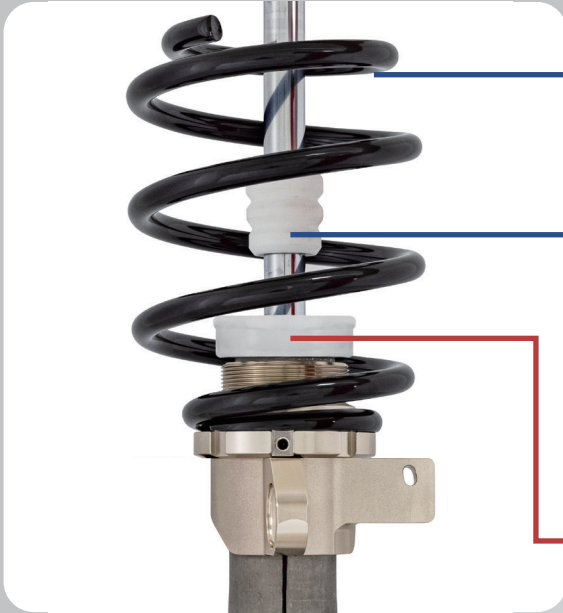
Tighten the M5 set screw.

End link tab

End Link tab must align with center line.

Tighten the M6 set screw to keep the locking ring in place.

7



Reinstall the OEM damper cap, then install the BC supplied ASP bump stop and coil spring.

- BC ASP coil spring
- BC ASP bump stop
- OEM damper cap

8

Replace the OEM dust cover, OEM bearing, OEM top mount.

● Tighten the OEM M14 top nut with 70Nm of torque.



OEM M14 Top Nut

● OEM top mount and bearing

● OEM dust cover



Installation REAR

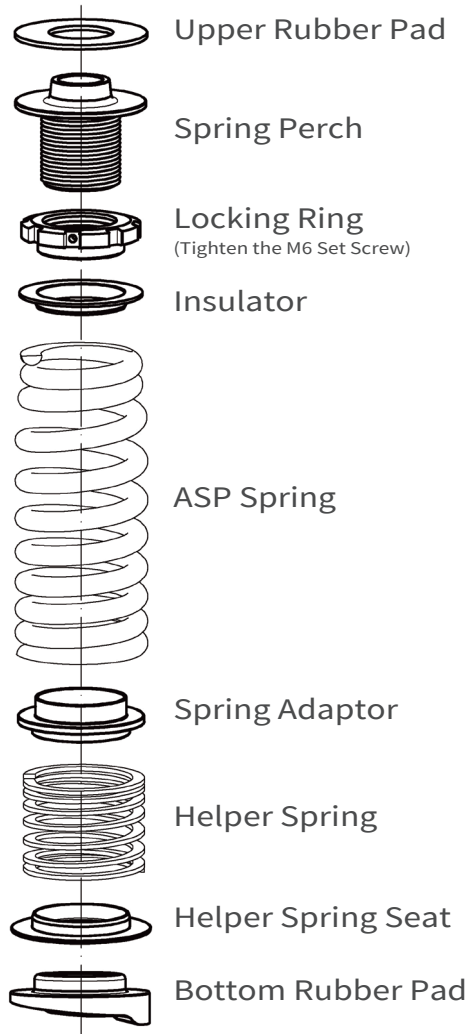
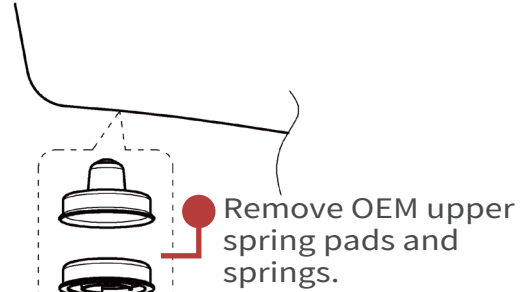
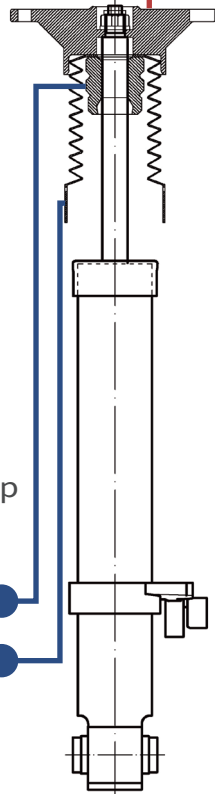
OEM Top Mount

Tighten the OEM M14 top nut with 70Nm of torque.

Remove the OEM bump stop and dust cover.

ASP bump stop

ASP dust cover



9

Install the BC supplied ASP parts and springs in the order shown on the right-hand side.



- Do not over tighten damper top nuts. All hardware should be tightened in accordance with the recommended torque values specified in the vehicle manufacturer's manual.

Adjustment

- Do not over tighten the spring as this will compress spring and cause rate shifting.
- Always clean dirt and debris from threads with pressurized air and/or brake cleaner. It is recommended to grease adjuster threads before performing ride height adjustments to prevent locking rings from seizing.

After Installation

- Make sure all hardware that was removed during installation are properly tightened.
- Ensure the set screw on each locking ring is tightened.
- A full vehicle alignment is highly recommended after installation, as it greatly influences the vehicle's handling characteristics and tire wear.
- Perform regular periodic checks on all hardware and locking rings.

Technical Support

- Please keep the original purchase invoice and warranty card for future service requests.
- Lowering your vehicle will change chassis suspension geometry. This can lead OEM components such as control arms, to generate noise. Relative age and condition of the surrounding suspension components may exacerbate noise production, commonly referred to NVH (noise, vibration, harshness).
- Please contact your local distributor for more information concerning technical support or advice concerning the product.

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