



ADJUSTABLE CAMBER PLATE KIT INSTALLATION INSTRUCTIONS

PART NUMBER D160-0007A

APPLICATION:

- 2014-2016 228i Coupe + xDrive (F22)
- 2015-2016 228i Convertible+ xDrive (F23)
- 2017 230i Coupe + xDrive (F22)
- 2017 230i Convertible+ xDrive (F23)
- 2014-2016 M235i Coupe + xDrive (F22)
- 2015-2016 M235i Convertible + xDrive (F23)
- 2017 M240i Coupe + xDrive (F22)
- 2017 M240i Convertible + xDrive (F23)
- 2013-2017 320i Sedan+ xDrive (F30 & F30 LCI)
- 2012-2016 328i Sedan + xDrive (F30)
- 2014-2016 328i Wagon + xDrive (F31)
- 2014-2016 328i GT + xDrive (F34)
- 2012-2016 328i Sedan + xDrive (F30)
- 2017 330i Sedan + xDrive (F30 LCI)
- 2017 330i Wagon xDrive (F31)
- 2017 330i GT xDrive (F34)
- 2012-2015 335i Sedan + xDrive (F30)
- 2014-2016 335i GT xDrive (F34)
- 2016-2017 340i Sedan + xDrive (F30 LCI)
- 2017 340i GT xDrive (F34)
- 2014-2016 428i Coupe + xDrive (F32)
- 2014-2016 428i Convertible + xDrive (F33)
- 2014-2016 428i Gran Coupe + xDrive (F36)
- 2017 430i Coupe + xDrive (F32)
- 2017 430i Convertible + xDrive (F33)
- 2017 430i Gran Coupe + xDrive (F36)
- 2014-2016 435i Coupe + xDrive (F32)
- 2014-2016 435i Convertible + xDrive (F33)
- 2014-2016 435i Gran Coupe + xDrive (F36)
- 2017 440i Coupe + xDrive (F32)
- 2017 440i Convertible + xDrive (F33)
- 2017 440i Gran Coupe + xDrive (F36)

PARTS LIST

Qty	Part Number	Description
1	D162-0041	FIXED CAMBER PLATE RIGHT
1	D162-0043	FIXED CAMBER PLATE LEFT
2	D163-0032	SLIDE CAMBER PLATE ASSY
1	D163-0029	HARDWARE KIT

Thank you for purchasing camber plates from Dinan Corp. Great care has been spent developing this product to assure that you will receive maximum performance and ease of installation. Please take time to read these instructions. If you have any difficulties during the installation please call tech support at 408-779-8584. We make every effort to ensure that Dinan products are of the highest quality and want to hear if you have any problems.



Warnings and notes



- Never work on vehicles supported by a jack only. Use secure jack stands!
- Be sure that the camber plates are installed in the correct orientation. Incorrect installation has severe negative impact on wheel alignment and vehicle handling.
- L and R refer to left and right side of the vehicle respectively when seated in the driver's seat and facing the front of the vehicle.
- Do not use pneumatic tools when re assembling.

Installation Instructions

1. The camber plates are installed between the body and the guide support (bearing hat). If the Camber Plates are being installed with a suspension system, you will perform these steps prior to reassembling the struts.
2. Follow BMW's recommended procedure 31 31 000 to remove the strut assemblies from the vehicle. Use a McPherson strut compressor to properly remove the guide support from the strut assembly.

3. Figure 1 shows the weather seal boot pulled back exposing the OEM guide support mounted to the strut tower.



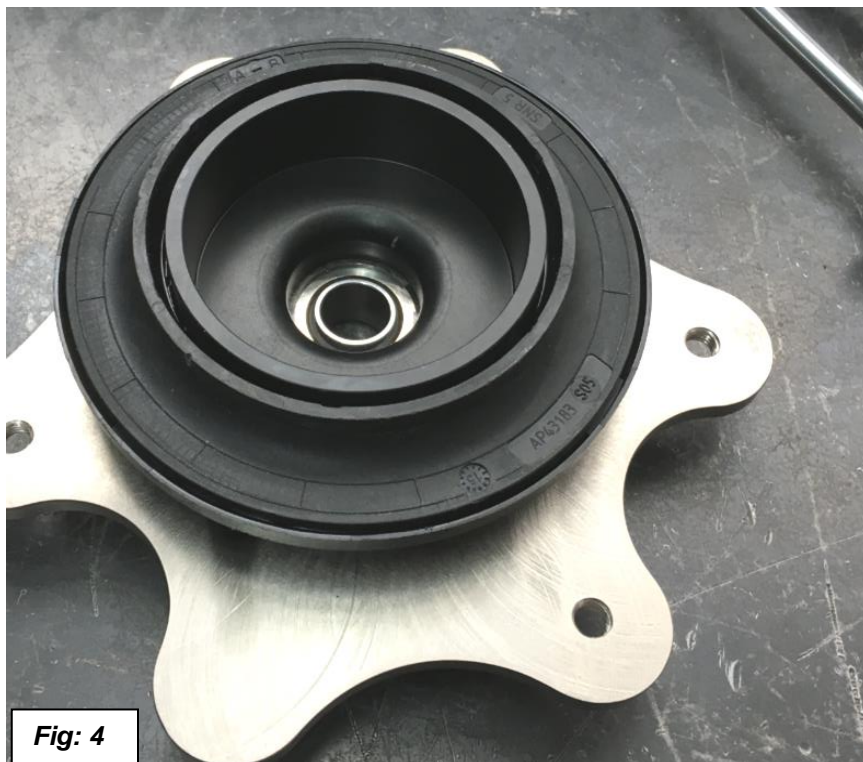
4. Reuse the paper gasket that goes between the body and the camber plate. See Figure 2.



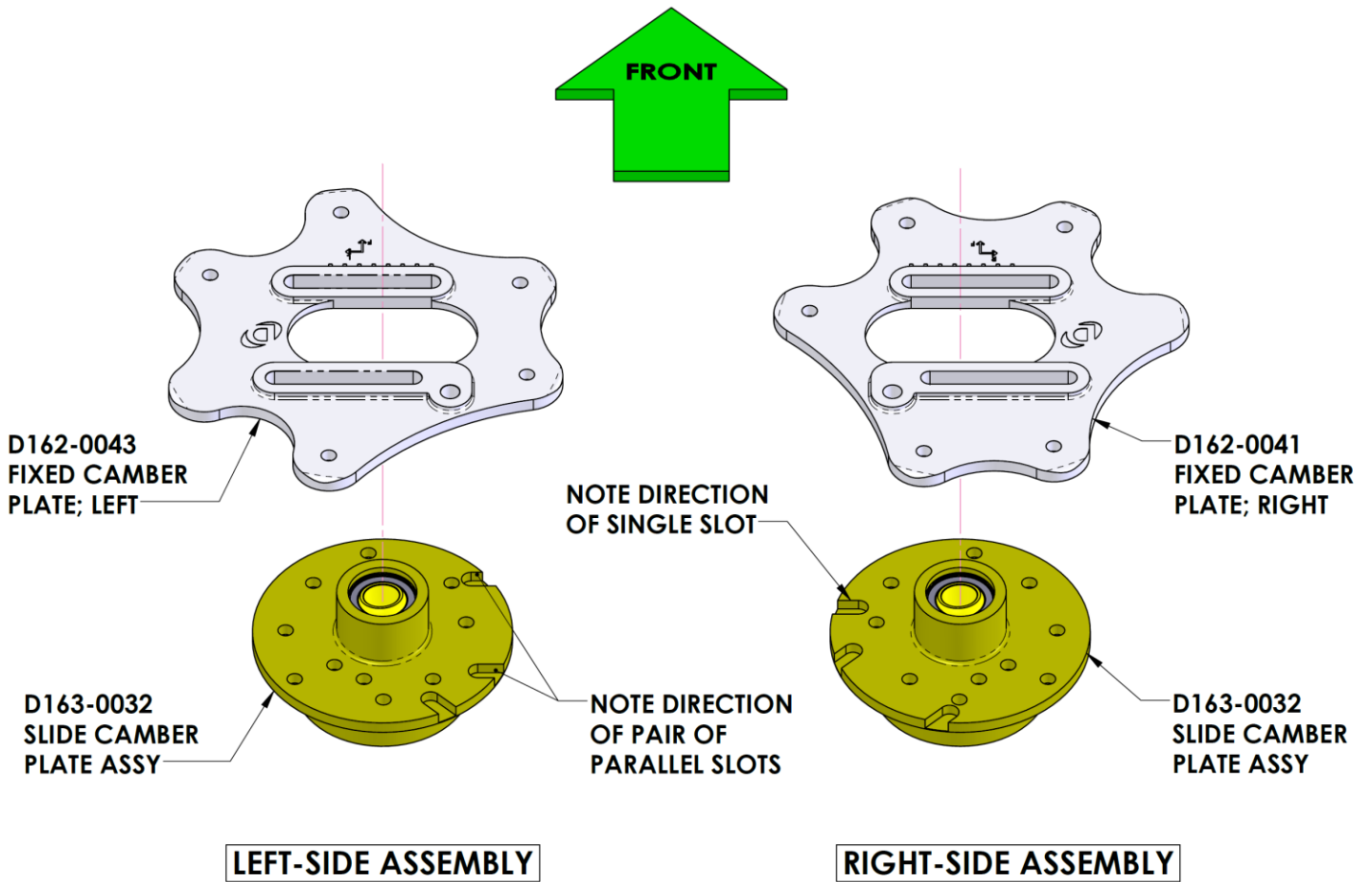
5. Remove spring perch bearing from the OEM guide support. See Figure 3.



6. Install spring perch bearing on the Dinan slide camber plate. See Figure 4.



7. Locate the Dinan fixed camber plates in the kit. Note that these have been engraved with "L" or "R", to denote left and right side respectively when seated in the driver's seat and facing the front of the vehicle.
8. Locate the two Dinan slide camber plates in the kit. These are the same for left and right, however they must be aligned correctly to the fixed plates in order to function properly! Carefully review the diagram below and familiarize yourself with the correct installation:
 - On the left side, the two parallel slots on the slide camber plate point inward towards the engine.
 - On the right side, the single slot points inward towards the engine.



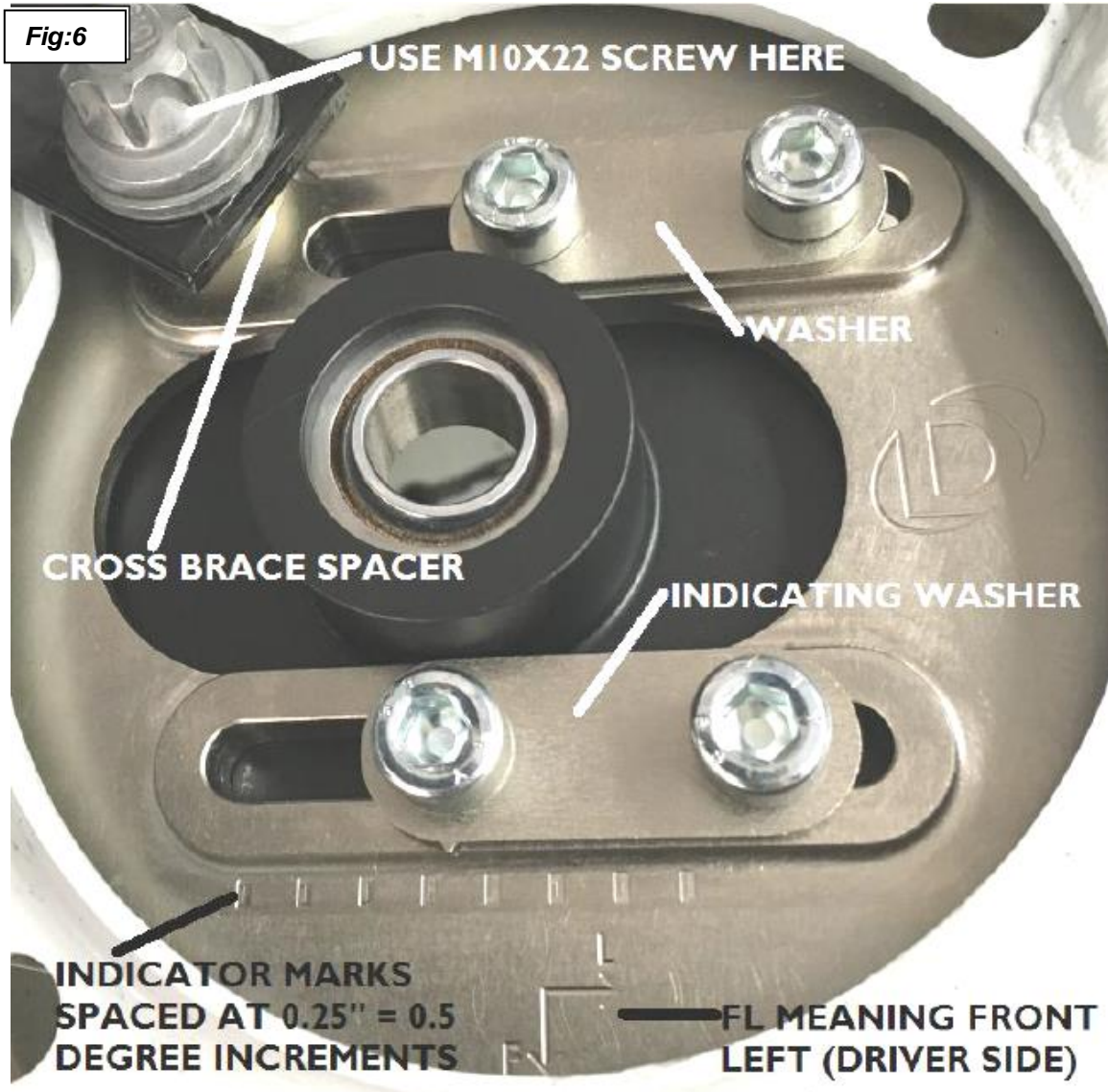
9. Reassemble struts with the Dinan camber plates. Refer to the previous diagram as needed. The slide camber plate is mounted to the fixed camber plate with the slot like washers and M8x18 socket head cap screws. Finger tight is fine for now. See Figure 5.



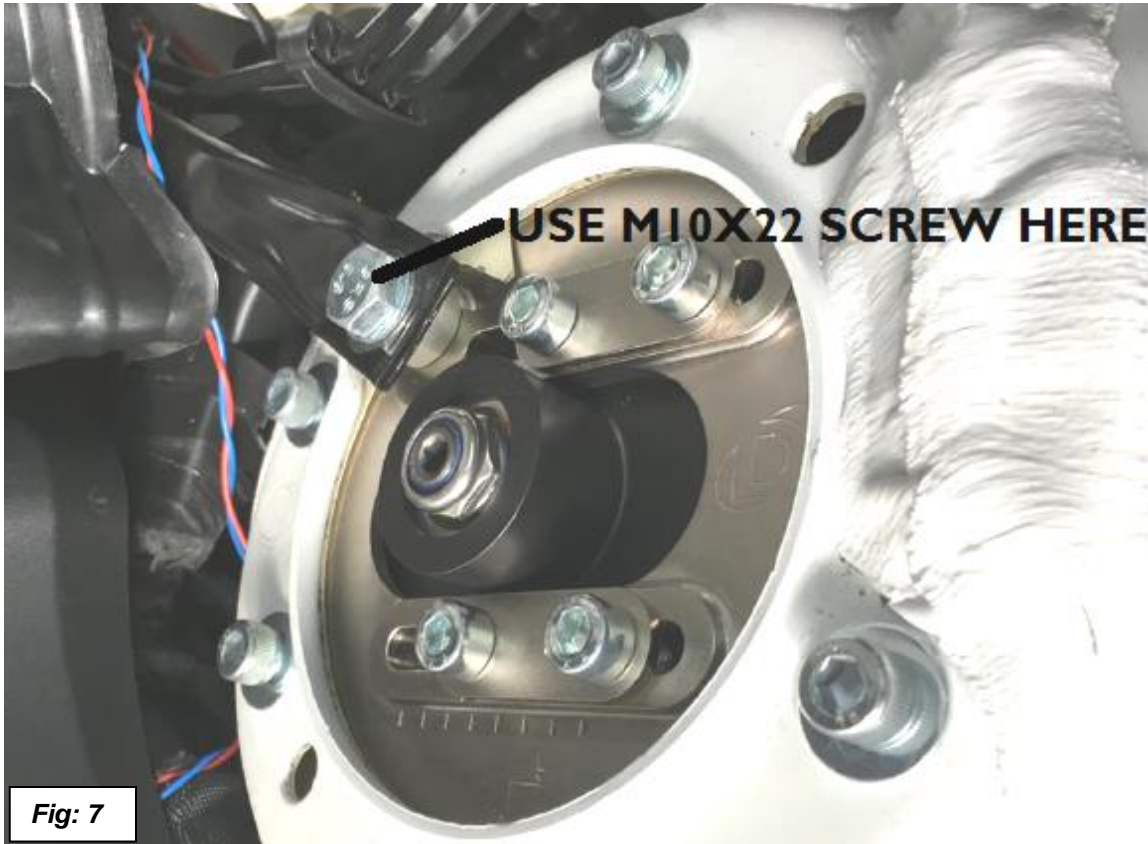
10. Line up the holes, and use the supplied M8x12 socket head cap screws and washers to attach the strut assembly to the body. Torque bolts to 20 ft-lbs. Do not use an impact!

Special Note: Some vehicles have a 3-bolt or 5-bolt guide support depending on the model and year. Dinan has supplied enough hardware for a 5 bolt car in every kit. If you car only has 3 bolts, only use 3 of the 5 bolts.

11. Figure 6 shows the Dinan camber plates installed on the driver side strut tower (strut not shown for clarity). Don't forget the Cross Brace Spacer. The slot shaped washers are the same size and shape, but the lower one has an indicating pointer. The indicator marks will help with roughly setting your camber. An alignment is still required.



12. Figure 7 shows the Dinan camber plates properly installed on the driver side strut tower.



13. Repeat previous step with the assembled right-side camber plate and right strut.

*****Do not use an impact wrench, proper torques are as follows:**

M8X12 screws >>>20ft-lbs
M8X18 screws>>>20 ft-lbs
M10X22 screw>>>40 ft-lbs
M12 nut>>>47 ft-lbs

14. Install the 4 rubber grommets into the holes that are now exposed in the strut tower.
15. **Wheel alignment:** Toe & camber adjustment will be required after Dinan Camber Plates are installed. For a starting point, Dinan recommends -0.5° more camber than stock, with the stock toe specification. You may adjust as needed to suit your own handling and tire wear requirements.

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2	D163-0032	SLIDE CAMBER PLATE ASSY
1	D163-0029	HARDWARE KIT
	CONTAINS	
2	D162-0045	SPACER
2	D162-0046	INDICATING WASHER
2	D162-0047	WASHER
8	D671-0200	M8 X 18 SOCKET HEAD SCREW
4	D671-0204	12MM BLANKING GROMMET
2	D671-0205	M10 SOCKET HEAD CAP SCREW
10	D671-0207	M8 X 12 SOCKET HEAD CAP SCREW
2	D673-0070	M12 X 1.5 NYLOC NUT
2		M10 FLAT WASHER
10		M8 X 20 WASHER
