

Detroit Speed
Caster/Camber Plate Kit
1979-1989 / 1990-1993 Ford Mustang
P/N: 030342DS & 030343DS

The Detroit Speed Caster/Camber Plate Kit simplifies precise camber and caster adjustments at the strut tower. The kit features Speed-LIGN technology for consistent and precise adjustments without any unwanted movement during vehicle use. Caster and camber adjustments are independent of each other, and allow for increased adjustment range over stock. The kit uses an aircraft-grade monoball for strut shaft attachment for smooth, precise articulation throughout suspension travel.



PN: 030343DS Shown

Item	Part Description	Quantity
1	Caster/Camber Plate	2
2	Strut Bearing Assembly	2
3	Strut Mount Retainer	2
4	Caster/Camber Plate Hardware	1
5	Instructions	1

IMPORTANT:

All work should be performed by a qualified technician. Please read the entire set of instructions and fully understand all of the steps involved before beginning the project. Always make sure to wear the appropriate safety equipment for the job and properly support the vehicle. If you have any questions before, during, or after the installation, feel free to contact Detroit Speed by phone at (704) 662-3272 or by email at tech@detroitsspeed.com.

Hardware Checklist – Detroit Speed Caster/Camber Plate Kit		
Item	Description	Quantit
1	M10-1.5 x 40mm Socket Head Cap Screw	6
2	M10-1.5 x 20mm Socket Head Cap Screw	4
3	10-24 x 5/8" L Button Head Cap Screw	2
4	10-24 Flanged Nylock Nut	2
5	M10 Flat Washer	10
6	M10 Speed-Align Adjusters	8
7	Strut Bearing Spacer	4
8	Strut Bump Stop Washer	2

Disassembly:

1. To begin, chock the rear wheels and loosen the front lug nuts. Raise and support the front of the vehicle with jack stands under the frame. Remove the front wheels.
2. Support the lower control arm with a jack.
3. Loosen the lower strut to spindle mounting hardware. Do not remove hardware.
4. Remove the cover from the upper mount assembly to gain access to the upper strut mount.
5. Remove the factory upper strut nut, bushing and spacer.
6. Remove the lower strut hardware. Compress the strut and remove from the vehicle
7. Remove factory upper strut mount assembly from the strut tower

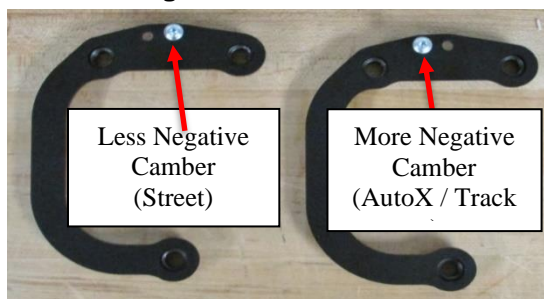
Installation:

8. Place the strut mount retainer on the bottom side of the wheelhouse with the welded nutserts facing down. Thread the provided M10-1.5 x 40mm socket head cap screws and washer through the into the in the retainer to locate the retainer plate. (Figure 1).



Figure 1 – Locate Strut Mount Retainer

9. Rotate the retainer plate to align the small anti rotation hole with the strut retainer. The DSE retainer plate includes (2) anti rotation holes to adjust the coarse range of camber adjustment. Begin with the retainer with the intended use as shown in (Figure 2).



NOTE: Figure 1 shows strut mount retainer installed in the more negative position

Figure 2 – Strut Mount Retainer – Camber Adjustment

10. Install the 10-24 x 5/8" long button head cap screw from the top. Secure the retainer with the 10-24 flanged nut. (Figure 3).



Figure 3 -Strut Mount Retainer Hardware

11. Assemble the DSE strut bearing assemblies into Driver and Passenger Side Plates. Align the DSE Speed-LIGN adjusters into the slots, with the "0" tab is in the 2nd notch from the left edge of the plate as shown in (Figure 4).



Driver Side Figure 4 Passenger Side

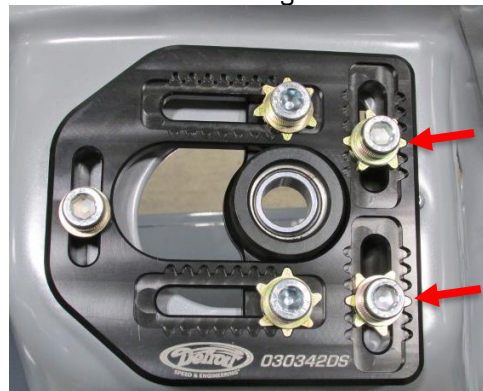
12. Install the strut bearing assemblies into the caster/camber plates. Use the provided M10-1.5 x 20mm socket head cap screws and washers. Thread the fasteners through the adjusters in the caster/camber plates into the strut bearing assembly. Snug the fasteners at this time. (Figure 5).



Driver Side Assembly Figure 5 Passenger Side Assembly

13. Install the assembled Caster/Camber plate assembly onto the vehicle. Install one M10-1.5 x 40mm socket head cap screw and washer into the caster/camber plate through the slotted hole without adjuster notches. Install hardware with Speed-Lign washers in the notched slotted adjusters. Torque all M10 hardware to 40 ft lbs. [Figure 6]

Note: Laser Etching will face towards the engine.



Begin with the Camber Adjustment in the 3rd notch from the inside. Camber will be adjusted during final front end alignment

Passenger Side Shown

Figure 6 – Install Caster/Camber Plate

14. Install one of the provided strut bump stop washers over the top of the strut followed by one of the provided strut bearing spacers (Figure 7). **NOTE:** The small step on the spacer will be pointing up.

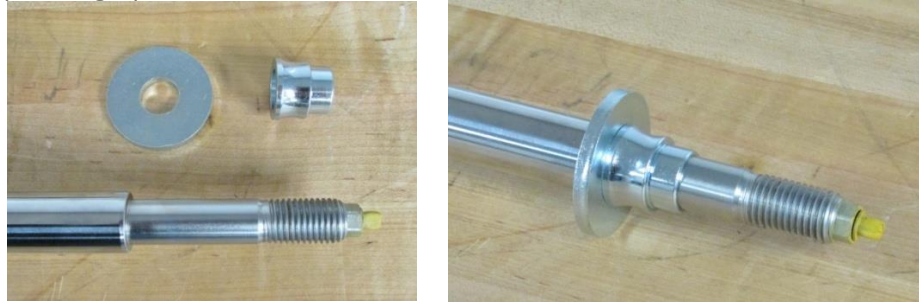


Figure 7 – Bearing Spacer and Washer

15. Install the upper strut shaft through the monoball assembly, with the step spacer installing inside the moonball. [Figure 8]

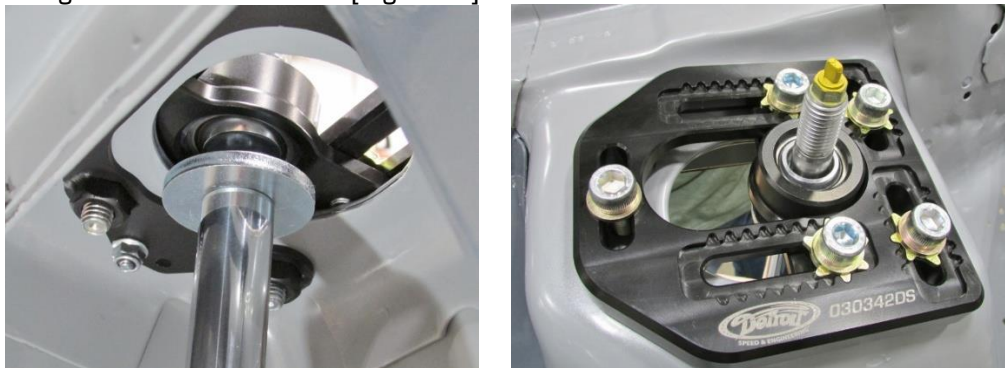


Figure 8 – Install Strut

16. Install the strut bearing spacer. Install the upper strut hardware and tighten the jam nut. Torque the hardware to 45 ft-lbs. (Figure 9).



Figure 9 – Tighten Strut

17. Connect the lower strut mount to the spindle. Reinstall Factory hardware and torque to 120 ft lbs.
18. Reinstall the front wheels and torque to the manufacturer's recommended torque specs. Lower the vehicle to the ground.

A Front End Alignment is required at this time.

Alignment Adjustments:

Alignment	Street	AutoX/Track
Camber	-0.5° +/- .2°	-1.5° to -2°
Caster	+ 5.5 ° ± 0.2°	+6° +
Toe (Total)	1/16" to 0" Toe	1/16" to 1/8" Toe

The Detroit Speed patent pending Speed-Align adjustment device allows quick, accurate, and repeatable adjustments to be made without needing any additional components.

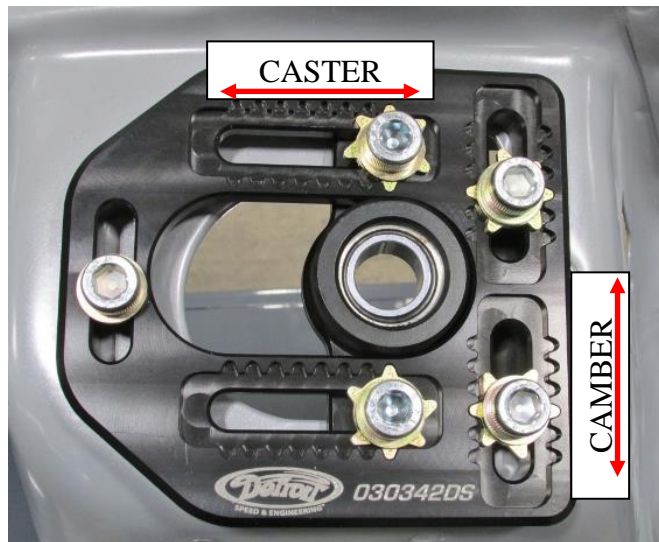
Adjustments are simply made by loosening the attaching fastener so the Speed-Align adjuster can be released from the notch and then moved to the desired notch/position. Once the fastener is tightened, the Speed-Align adjuster locks the fastener in the desired position in the slot.

The star adjusters have "0", "1/16" and "1/8" etched onto them for reference. Each notch on the star Caster/Camber plate equals 1/4" of movement.

Caster Adjustment: Move Bearing Forward/Rearward - moving rearward increases positive caster

Camber Adjustment: Move Plate Inward/Outward - moving inward increases negative camber

Torque Specs - 40 Ft Lbs



If you have any questions before or during the installation of this product, please contact Detroit Speed at tech@detroitsspeed.com or 704.662.3272

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