

INSTALLATION MANUAL FOR REVISED LOWER BRACKET

TEIN highly recommends that the lower brackets be swapped by a TEIN Authorized Dealer, or a certified mechanic. This Installation Manual is to be used in conjunction with OEM Service Manual or Repair Manual. Please replace both front lower brackets.

REQUIRED SPECIALITY TOOLS

- 1/2" Torque Wrench
- TEIN Spanner Wrenches which were included with the coilover kit. Some older kits include TEIN spanner wrenches which are not 1/2" drive compatible – in that case TEIN will provide one new Spanner Wrench for use with 1/2" torque wrench.
- Spray lubricant (WD40 or similar)

IMPORTANT

Please measure and record the position of the current lower bracket before removal. This measurement will be needed when installing the new revised brackets to maintain the same vehicle ride height.

CAUTION

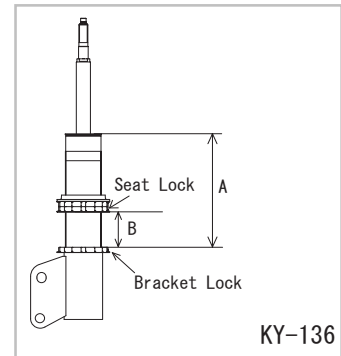
DO NOT use vise to hold any section of damper and or lower bracket. The pressure caused by the vice may damage the coilovers.

Follow the step-by-step instructions carefully.

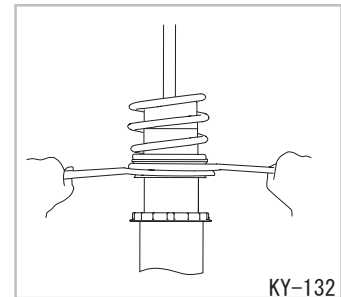
- 1) Measure B and A if possible for both driver and passenger side from Figure KY-136. Record the measurements.

Left	Right
Measurement B (Line 1) _____	_____

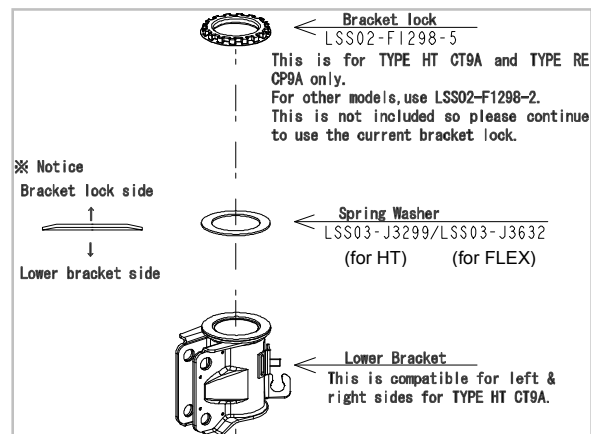
Measurement A (Line 2) _____
Measurement A is only used as a secondary reference



- 2) Re-tighten spring seat and spring seat lock only (Figure KY-132). Use a 1/2" drive compatible TEIN spanner wrench with a 1/2" torque wrench and any TEIN spanner wrench to torque the Seat Lock to 41.6 +/- 1.8 ft-lbs.
Note: This is done in preparation of Step 5. If the spring seat and seat lock are not tight, step 5 cannot be performed correctly
- 3) Loosen bracket lock.*
Note: Lower bracket lock must be loosened while on the vehicle
- 4) Loosen but do not remove the two knuckle bolts.
Note: This will relieve any stress or distortion on the coilover lower mounting bracket.



- 5) First try to turn the shock body by hand, if you cannot rotate the shock body then use the spanner wrench to turn the spring seat/ seat lock, which should rotate the damper body.
- 6) Remove the entire coilover assembly from the vehicle.
Note: trying to remove the lower bracket while the coilover assembly is still installed on the vehicle may increase chance of damage to ABS line, brake line, and drive axles.
- 7) Now with the bracket lock and lower bracket loose, it should be easy to completely remove the lower bracket*.



*Use a lubricant (WD40 or similar) to aid in removal of bracket lock and lower mounting bracket

INSTALLATION MANUAL FOR REVISED LOWER BRACKET cont.

- 8) Clean threaded shock body to remove any dirt, rocks, or contaminants.
- 9) For most applications you will re-use the bracket lock. *On HT application please use the supplied bracket lock (Part # LSS02-F1298-5).*
- 10) Install the Spring Washer with concaved (cupped) side down. See Assembly Diagram.
- 11) Thread revised lower bracket onto damper.
- 12) Use Reference Value Chart to convert Measurement Difference for previously measured B.

LEFT							
Line 1	Original Measurement B	+/-	Line 3	Measurement Diff. <i>*from Ref. Value Chart</i>	=	Line 4	Corrected Measurement B
RIGHT							
Line 1	Original Measurement B	+/-	Line 3	Measurement Diff. <i>*from Ref. Value Chart</i>	=	Line 4	Corrected Measurement B

- 13) Adjust coilovers to new Corrected Measurement B (Line 4) from above.
- 14) Re-install complete coilover onto vehicle. Please torque all nuts and bolts to factory specifications.
- 15) Use a 1/2" drive compatible TEIN spanner wrench with a 1/2" torque wrench to torque the Bracket Lock to 101.3 +/- 3.6 ft-lbs.**
Note: It takes a few complete rotations to tighten the bracket lock as the TEIN Spring Washer will compress.

If there are any questions or are unable to carry out any of the above listed instructions, please contact TEIN USA for assistance.

Torque Settings	
Seat Lock:	41.6 +/- 1.8 ft-lbs. = 56.4 +/- 2.4 N m = 5.75 +/- .25 kgf m
Bracket Lock:	101.3 +/- 3.6 ft-lbs. = 137.3 +/- 4.9 N m = 14.0 +/- .5 kgf m

Reference Value Chart

Item	Vehicle	Year	Chassis	Part Number	Measurement Difference (LINE 3)
FLEX	Lancer EVO II/ III	1996-1997	CE9A	DSR10-61SS1	+2
FLEX	Lancer EVO IV/ V/ VI	1996-2000	CP9A	DSR34-61SS1	-11
FLEX	Lancer EVO VII/ VIII/ IX	2001-2006	CT9A	DSR52-6USS1 DSR84-6USS1	+8 +8
HT	Lancer EVO VII/ VIII/ IX	2001-2006	CT9A	DSR52-V1LS1	-8.5
FLEX	3000GT (AWD Turbo)	1991-1999	Z16A	DSR74-6USS1 DSR90-6USS1	-10 -10
FLEX	3000GT (FF NA)	1991-1999	Z11A	DSR92-6USS4	-10
FLEX	Legacy	2000-2004	BE5	DSS08-61SS1	-11
FLEX	Impreza STi	2004	GDF	DSS28-6USS1	-11
FLEX	Impreza WRX	2002-2007	GDA	DSS40-6USS1	-11
FLEX	Impreza STI	2005-2007	GDF	DSS66-6USS4	-17