# 2017-2024 Mazda CX-5 - Strut Replacement



**2017-2024 Mazda CX-5 | Expert | 4-6 hours**

### TOOLS

Floor jack  Jack stands  Wheel chocks  Metric socket and wrench set  Torque wrench  Ratchet and breaker bar  Coil spring compressor  Penetrating oil  Impact wrench (recommended)  Wire or zip ties to support the knuckle

### PARTS

Front struts, pair (Bilstein B4 OE Replacement, left 22-290977 / right 22-291721) 22-290977 / 22-291721 $278.00

## STEPS

1. **Confirm the diagnosis and the right parts - Worn front struts show up as clunking or knocking over bumps,** a floaty or bouncy ride, nose-diving under braking, cupped tire wear, or visible oil le...
2. **Raise and support the front - Park on level ground, set the parking brake, and chock the rear wheels.** Break the front lug nuts loose, then raise the front of the vehicle and set i...
3. **Remove the wheel - Remove the lug nuts and take the wheel off.**
4. **Disconnect the sway bar end link - Remove the nut that attaches the sway bar end link to the strut and** wiggle the link free from the strut. Hold the link stud from turning if it spins...
5. **Free the brake hose and ABS wire - Unclip the brake hose and the ABS wheel-speed sensor wiring from their** brackets on the strut body so nothing is strained when the strut comes out.
6. **Break the top mount nuts loose - With the strut still bolted to the knuckle at the bottom, break the top** mount nuts on the strut tower loose, but do not remove them yet. The strut wi...
7. **Remove the strut-to-knuckle bolts - Support the steering knuckle with a floor jack so it cannot drop.** Remove the two large bolts that secure the strut to the steering knuckle. Do not le...
8. **Remove the old strut - Hold the strut so it cannot fall, remove the top mount nuts, and lower the strut** out of the wheel well.
9. **Compress the coil spring - Fit a coil spring compressor and compress the spring from both sides until it** is loose on its seats. Never remove the piston rod top nut without the...
10. **Transfer the spring and mount to the new strut - Hold the piston rod from turning and remove the top nut.** Lift off the top mount, strut bearing, and upper spring seat, then lift the spring, dust boo...
11. **Install the new strut - Feed the top of the new strut up through the strut tower and start the top mount** nuts by hand. Lift the knuckle up to the lower strut bracket, align...
12. **Reconnect the sway bar link, brake hose, and ABS wire - Reconnect the sway bar end link to the strut and** start its nut. Clip the brake hose and ABS wire back into their brackets on the strut, making sure t...
13. **Torque the fasteners and reinstall the wheel - Tighten the strut-to-knuckle bolts, the top mount nuts, the** piston rod nut, and the sway bar end link nut to the factory torque specifications in the...
14. **Repeat on the other side - Repeat steps 3 through 13 on the other front corner. Struts are always replaced** in pairs.
15. **Road test and align - Lower the vehicle, take a short test drive, and listen for clunks or pulling. Then** get a four-wheel alignment. Removing the struts changes camber and...

### TORQUE

Wheel (lug) nuts 108-147 Nm Nm 80-108 ft-lb ft-lbs

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