



1979-1985 MAZDA RX7 - race coil over kit:

Package contents:

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| 2) Weld-on steel lower spring seat | 4) Zip ties |
| 2) 5" threaded collar | 2) Thick bearing washer |
| 2) Threaded lower spring seat | 2) Thin bearing washer |
| 2) Upper spring seat | 2) Needle bearing |

- 1) Remove the strut assembly from the vehicle. Use the Factory Service Manual or your favorite repair manual for this step. Make sure to understand there are two different length bolts holding the strut housing to the steering arm/ control arm combination.
- 2) Disassemble the upper strut mount and spring from the strut housing. ***NOTE* - The spring will be under extreme compression. This step should only be performed if you have a spring compressor and know how to use it.** Please refer to the Factory Service Manual for this step.
- 3) Fully disassemble the strut housing. You will need to remove the shock/insert, rotor and bearing.
- 4) Cut off the stock lower spring perch from the strut housing and grind down the weld. Make sure not to thin the wall of the strut housing while grinding. Fully clean the strut housing to prepare it for welding.
- 5) Locate and mark the location where the supplied laser cut lower collar seat will be welded to the strut housing. This should be somewhere around 6" from the top of the strut housing. This number works well for moderately lowered vehicles with 8" springs.
- 6) Secure the lower collar seat onto the strut housing by welding on the bottom side. This is a critical step. ***Note*- The welding should be performed by a certified welder who understands the problems incurred when welding to a thin tube. Too much heat and penetration will warp the tube and or cause the shock insert to not fit within the tube. Too little heat and penetration and the joint will fail!**
- 7) Now you are ready to reassemble the strut housings. Slip the supplied threaded collar sleeve over the strut body.
- 8) Screw the new lower spring perch onto the threaded collar. Make sure the stop/set screws are loosened out and clear of the internal threads. This set screw it how you keep the lower spring perch in place once you set corner weights.
- 9) Re-insert the large nut that secure the shock insert within the strut body per the Factory Service Manual.
- 10) Slip the supplied aluminum upper spring seat onto your new 2.5" ID springs. Secure it to the spring with the supplied tie wraps through the small holes in the spring seat and around the spring.
- 11) Insert the thin (.030) hardened washer into the round recess in the top of the spring seat.
- 12) Insert the needle bearing into the round recess in the top of the spring seat.
- 13) Insert the thick (.125) hardened washer into the round recess in the top of the spring seat.
 - A small dab of grease will help keep the bearings and washers within the recess.
- 14) Slide the spring, upper spring seat assembly over the shock shaft and down onto the lower spring seat.
- 15) Secure your upper strut mount to the shock shaft per the Factory Service Manual. You are now ready to re-assemble the strut assembly back into the vehicle.