

Spax patented on car adjustable shock absorbers and have been supplying upgraded suspension to Manufacturers, Race Teams, Restorers and Enthusiasts since the 1960's.

Our global network of OEM's, dealers and specialist mechanics supply on-car adjustable dampers to upgrade original equipment and help accurately tune suspension, allowing our customers to drive with increased confidence on the roads, and win on the track.

CSX Customer Specified Coilover Range

Our CSX Damper range provides the opportunity for customers to create bespoke specification coilover dampers from a selection of standardized, steel, damper bodies and end fixings. Specifically designed for Race, Custom & Modified cars our CSX range has over 5000 potential part numbers combining end fixings, body & stroke lengths, bump stops and spring seat diameters.

CSX dampers have CNC machined bodies with integral external thread for the use of adjustable spring platforms. They have 28 clicks of adjustable damping stiffness via a body mounted adjuster knob. The adjustment alters both the rebound and bump forces in unison, at approx 3:1 ratio. Damping characteristics have been specially designed to be ideal for fast road and competition use.

An adjustable spring platform allows easy ride height and corner weight setting. This can be achieved without removing the damper from the vehicle and a choice of 1.9" or 2.5" ID spring

platforms is available.

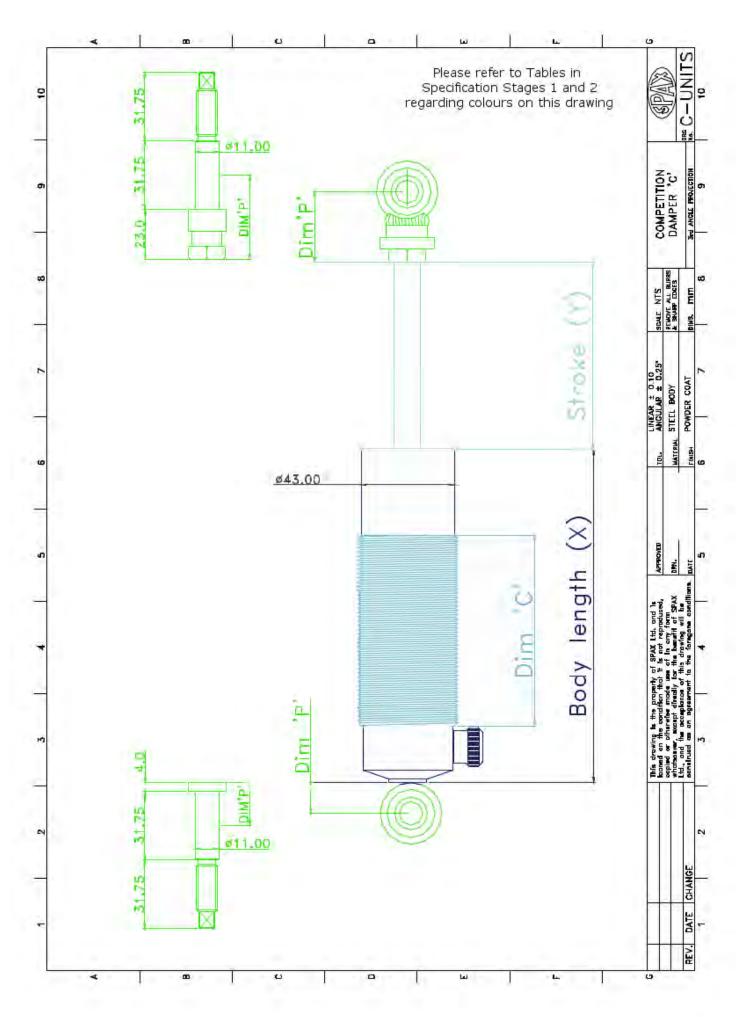
Each damper is individually hand built, matched and tested on our in-house factory Dynamometer Test Machine, assuring quality, consistency and performance.

Each damper is epoxy powder coated assuring a superb finish and long life.

The CSX range has been designed so it can be serviced, re-valved and repaired if required.



Spax CSX Coilover Damper Configuration Drawing



There are 5 simple stages to designing your own damper. Please follow these stages in order, if you are looking to replace your existing shock absorber then you may find it useful to have it, off the car to take measurements, when specifying this up-rated, adjustable, replacement.

These coilover dampers cost £199.99 each, unless you select any Optional Extras in Stage 4 which are charged at £15.00 per modification. CSX dampers will usually be manufactured in one week following receipt of your order.

Stage 1: Choose the top and bottom fixings required to fit the dampers to the car. The selections will form the second part of your CSX Part Number but this is the first decision to be made in specifying the part.

| Stage 1 | Description | Length | Bore | Dim 'P' | |
|-------------|-------------------|-------------------------------------|-----------------|---------|---------|
| Part Number | | | | Тор | Bottom |
| Α | Bonded Bush 10 | 25.4 mm (1") | 9.6 mm (3/8") | 32.0 mm | 14.5 mm |
| В | Bonded Bush 14 | 31.8 mm (1 ¹ /4") | 11.2 mm (7/16") | 32.0 mm | 14.5 mm |
| С | Bonded Bush 18 | 31.8 mm (1 ¹ /4") | 12.8 mm (1/2") | 32.0 mm | 14.5 mm |
| D | Spherical Bearing | 12 mm | 12.8 mm (1/2") | 36.0 mm | 17.5 mm |
| Е | Stem (standard) | see Configuration Drawing on Page 2 | | 39.0 mm | 20.0 mm |
| F | Silent block Bush | 28.0 mm | 16 mm | 39.0 mm | 21.0 mm |

Note: option D (Spherical Bearings) are fitted with a 15mm internal diameter bearing fitted with a removable 1/2" (12.7mm) sleeve

Stage 2: Select the body and stroke lengths you require

| Stage 2 | Damper | | Spring-Seat | Standard | Max Spring | Damper s | sizes, if fitted | with [| DD Fixings |
|-------------|---------|---------|------------------|----------|------------|-----------|------------------|--------|------------|
| Part Number | Body | Stroke | Thread Length | Bump | Length | mm (ir | nch dims are | appro | ximate) |
| | Length | Length | Dim | Rubber | (Inches) | | | | |
| | Dim (X) | Dim (Y) | (C) | length | | | ngth (excludes | Max O | oen Length |
| | (mm) | (mm) | (mm) | (mm) | | Bump rubb | er) mm (inch) | mn | (inch) |
| C70/900 | 131 | 46 | 65 | 27 | 4.5 | 185 | (7.25) | 231 | (9.00) |
| C75/975 | 143 | 54 | 77 | 27 | 5.0 | 197 | (7.75) | 251 | (10.00) |
| C75/100 | 143 | 64 | 77 | 27 | 5.5 | 197 | (7.75) | 261 | (10.25) |
| C80/105 | 156 | 64 | 90 | 27 | 6.0 | 210 | (8.25) | 274 | (10.75) |
| C80/110 | 156 | 74 | 90 | 45 | 6.5 | 210 | (8.25) | 284 | (11.25) |
| C90/115 | 181 | 64 | 95 | 27 | 7.0 | 235 | (9.25) | 299 | (11.75) |
| C90/120 | 181 | 74 | 95 | 45 | 7.5 | 235 | (9.25) | 309 | (12.25) |
| C90/125 | 181 | 89 | 95 | 45 | 8.0 | 235 | (9.25) | 324 | (12.75) |
| C90/130 | 181 | 99 | 95 | 45 | 8.5 | 235 | (9.25) | 334 | (13.25) |
| C100/135 | 207 | 89 | 120 | 45 | 9.0 | 261 | (10.25) | 350 | (13.75) |
| C100/140 | 207 | 99 | 120 | 60 | 9.5 | 261 | (10.25) | 360 | (14.25) |
| C100/145 | 207 | 114 | 120 | 60 | 10.0 | 261 | (10.25) | 375 | (14.75) |
| C100/150 | 207 | 124 | 120 | 60 | 10.5 | 261 | (10.25) | 385 | (15.25) |
| C120/160 | 258 | 99 | 150 | 60 | 11.0 | 312 | (12.25) | 415 | (16.25) |
| C120/170 | 258 | 124 | 150 | 60 | 12.5 | 312 | (12.25) | 436 | (17.25) |
| C120/180 | 258 | 149 | 150 | 60 | 13.5 | 312 | (12.25) | 461 | (18.25) |
| C120/190 | 258 | 174 | 150 | 60 | 15.5 | 312 | (12.25) | 486 | (19.25) |

Stage 3: Select the spring seat fixings you require

| Part Number | Spring Seat ID | | |
|-------------|------------------------------|--|--|
| O | No spring seats required | | |
| 1 | Fittings for 1.9" ID spring | | |
| 2 | Fittings for 2.25" ID spring | | |

Stage 4
Select any Optional Extras. These are charged for at £15 each.

| Stage 4 Part Number | Optional Extras | Standard Specification |
|------------------------|--|---|
| Α | Upside down fitment | Mount up to 45 degrees inclination |
| В | Yellow powder coated | Black powder coating |
| С | TrakSpax Spring Aid | Rubber Bumpstop (length per table 2) |
| D | Spring Adapter; increase diameter from 2.25" to 2.5" | As per Stage 3 |
| Е | Rebound to bump ratios = 1,2,4,5:1 | Rebound to bump ratio 3:1 The majority of customers use the 3:1 setting since this is ideal for most track and fast road applications. |

Stage 5

Now build up the part number based on the selections made in designing your CSX Coilover Damper

| Body / Stroke Lengths | Top fixing | Bottom fixing | Spring ID Size | Extras |
|--------------------------|----------------|----------------|----------------|----------------|
| Stage 2 Choice | Stage 1 Choice | Stage 1 Choice | Stage 3 Choice | Stage 4 Choice |

Example; if given a CSX Part Number C90/120ED1B we would build a Damper according to the specification below;

| Stage 2 | Stage 1 TOP | Stage 1 BOTTOM | Stage 3 | Stage 4 |
|-----------------------------------|---|--|--|---|
| Part Number | Part Number | Part Number | Part Number | Part Number |
| | | | | |
| C90 / 120 | Ε | D | 1 | В |
| Damper with Body Length = 181mm | Damper with Stem type Top Fixing "P" Dim to measure | Damper with Spherical Bearing type Bottom Fixing | Damper fitted with top and bottom spring seats and caps for | Damper powder coated in Yellow, not black |
| and | open / closed lengths = 39mm | "P" Dim to measure open / closed lengths = 17.5mm | 1.9" ID Springs (per Stage 3 table) | (per Stage 4 table) |
| Stroke Length = 74mm | (per drawing on page 2) | (per Stage 1 Table) | , , , , , , , , , , , , , , , , , , , | |

The standard for specifying dampers is to quote open and closed lengths and measure from the centre of the top fixing to the centre of the bottom fixing as fitted to car, hence our quoting "Dim P" lengths.

The above example would give a damper with a closed length (metal to metal no bumpstop fitted) of "X (Body Length) + P (Top fixing) + P (Bottom Fixing) = 181 + 39 + 17.5 = 238mm"

And an Open length (fully extended) of "Closed length + Stroke (Y) = 238 + 74 = 310mm"