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### Renault Clio 3 RS rear axle stiffening kit fitting instructions.

#### Stiffening kit overview.

The stiffening kit is designed to add extra strength to the rear axle/beam. The original design of the axle allows a great deal of flex in the areas around the mounting bracket for the stub axle. Any flex in this area can allow variations in dynamic toe and camber settings. Reducing any flex in this area will improve the precision and feel of the car under high axle loadings. It can be used with or without the standard spring platforms in place.

This is designed specifically for motorsport use and brake pipes and handbrake cables will require rerouting to fit the kit.

The fitting of this kit will increase the roll resistance of the rear axle so please bear this in mind when tuning the spring and anti roll bar rates.

#### Fitting.

Pure Motorsport accept no responsibility whatsoever for incorrect fitment of this kit. It is highly recommended that a competent and suitably trained welder/fabricator fit this kit

These instructions are offered as a guide only and further information may be required in the form of a workshop manual.

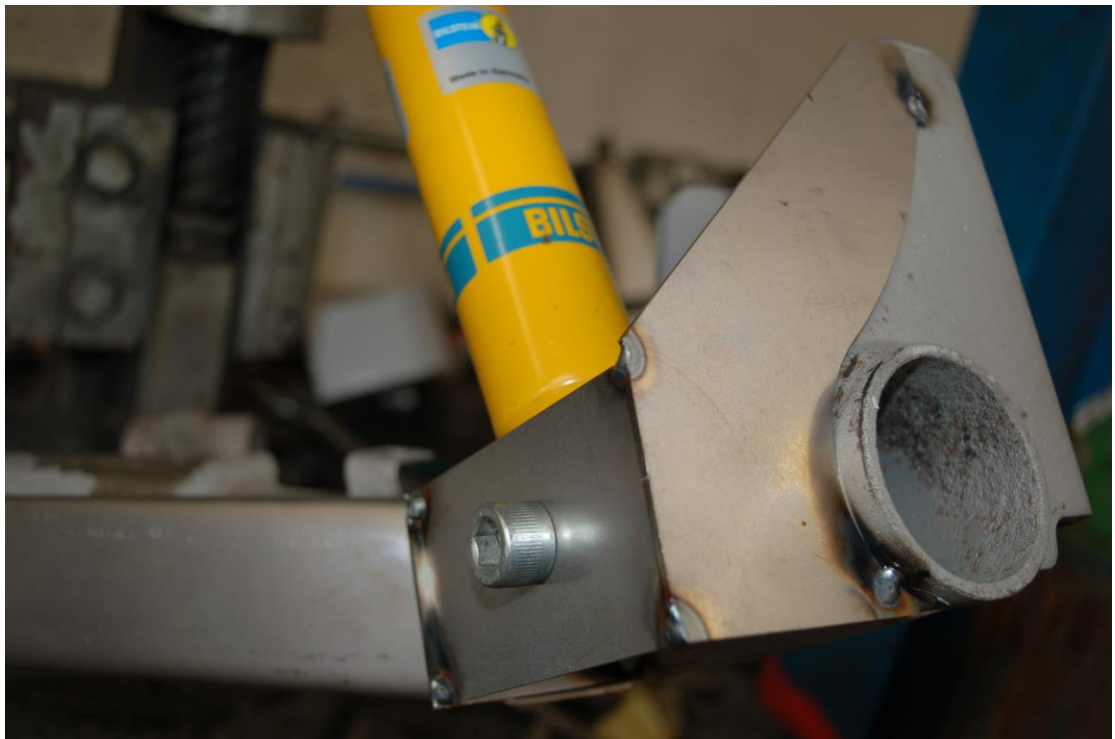
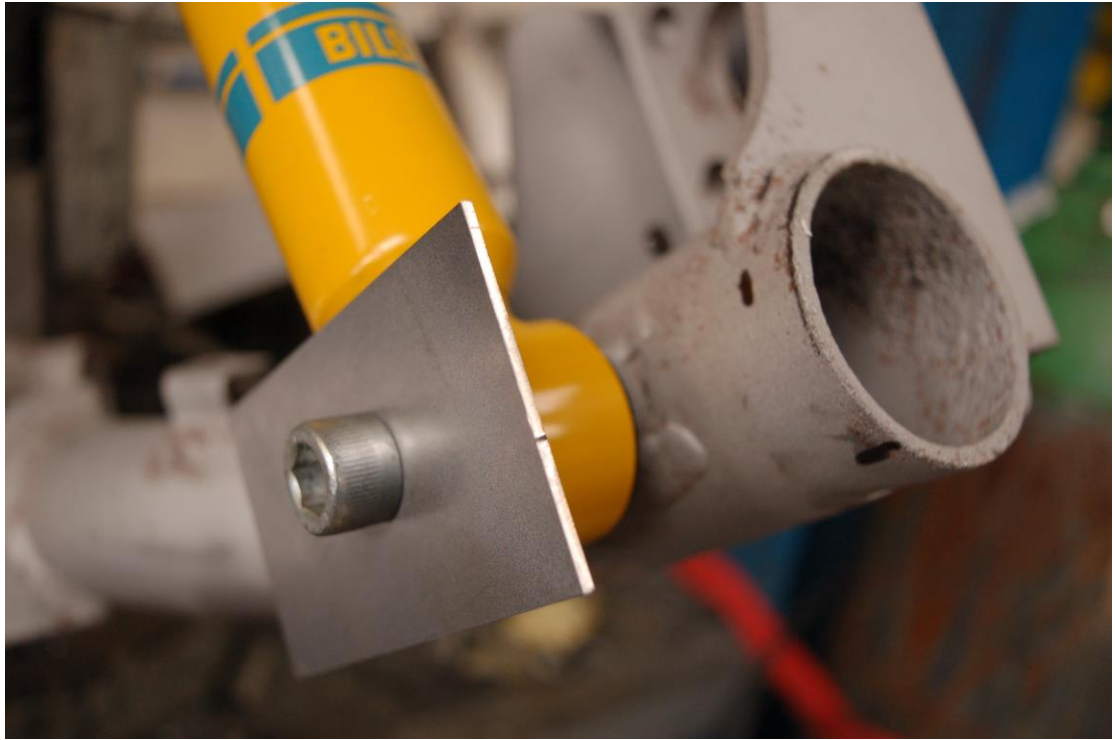
- Remove the rear axle from the car.
- Remove the bushes as these will burn off while welding.
- Media blast the axle or remove the paint.
- ONLY if you are using a full coilover rear suspension unit then cut the spring platforms off and grind any remaining weld from the axle. As you are doing this offer up the damper mounting stiffening plates so you don't cut off too much at the rear of the spring platform.
- Cut the handbrake cable bracket as shown below, offering up the front gusset as a guide, so you can weld the bracket back on once the gusset is fitted.



- Offer up the front triangular gussets. Make any adjustments if required, mark the outlines and grind the axle back to bare clean metal.
- Tack on the gussets on either side, check alignment and fit and weld continuously.

- Either bolt the damper and thin shim washer, or bolt a spacer about 0.5mm wider than the damper bottom bush, through the rectangular stiffening plate and ensure this is square (be aware the hole is not centred so make sure it's the correct way around). The kit is designed to fit many different widths of damper bottom bush/bearing – simply cut off any material not required on the base and rear stiffening plates.
- Offer up the front, base and upright stiffening plates to this. All three plates should sit at 90 degrees to one another to box in the damper mounting bolt.
- Mark the outlines of these plates and grind the axle back to bare clean metal.
- Offer up the rear gusset at this point to check all plates are well fitted together.
- Tack the plates together and check fit, remove damper if fitted. Once happy, continuously weld around all plates and inside if you wish.
- Paint or powder coat the rear axle.
- Refit all components in the reverse of removal and reroute brake pipes and cables as required. A P-clip mounted on top of the rear gusset holds the handbrake cable in position nicely.











If you get stuck please ring for help and advice.

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