

7.0 Rear of car suspension and brakes

7.1 Suspension

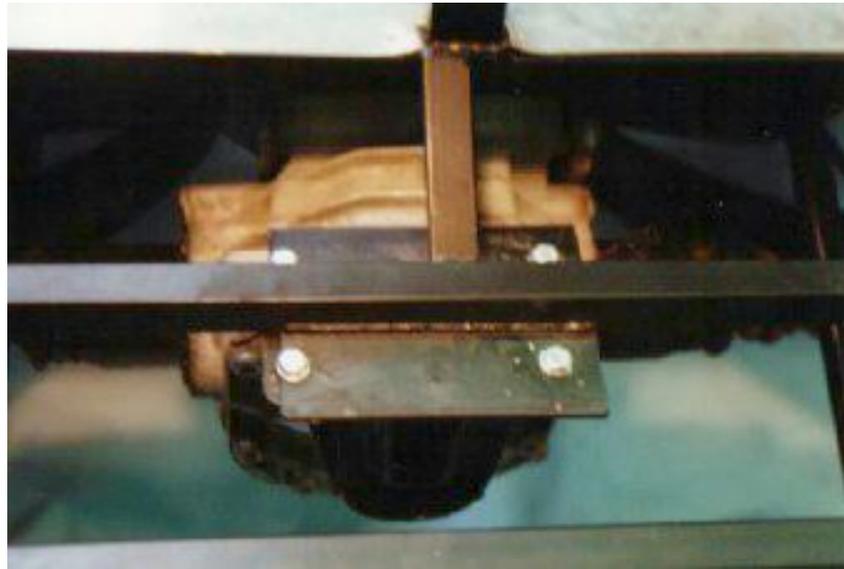
The Cat E1 uses the rear independent suspension from the Ford Sierra saloon/hatchback (not the estate), make sure that the suspension unit has been thoroughly cleaned, de-rusted and painted before fitting to the Cat.

Remove all the brake lines from the suspension unit as there are new lines in the cat kit. Check for wear in the bushes, replace if necessary.

Check the rubber suspension mounts for excessive wear and deterioration, cut off the raised part of the steel tube on the front rubber mounting brackets fig . 2.0 you will also need to remove a small amount of metal from the framework around the front mounts for fitting into the Cat otherwise the Metal on the frame around the large bush area will hit the rear chassis on the cat.

The rear frame/suspension will now be able to rest on the chassis at the rear. Fit the two 12mm large bolts from the top – lock nuts underside.

Support the differential unit with a block of wood and jack up the rear suspension - mark carefully through the differential bracket (rubber type with 4 holes) onto the steel chassis plate-drill 4 holes



And fit 4 bolts and lock nuts 10mm

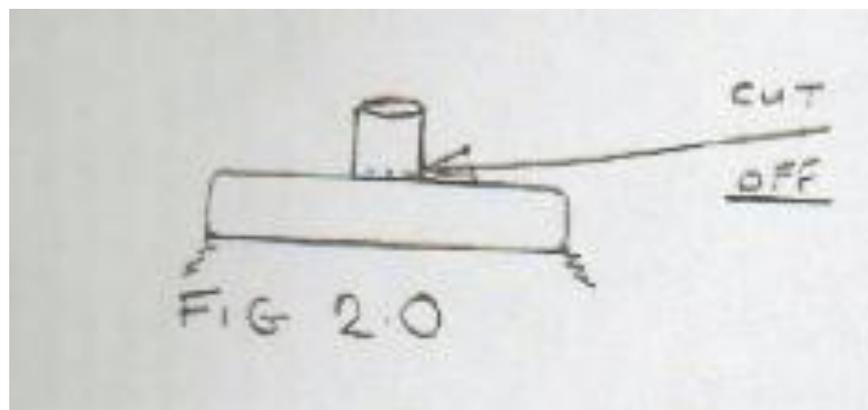




Fig 7

7.2 Rear springs

The tiger rear coil springs are located in the lower arms suspension depression and in the circular section on the Cat chassis; different rated springs are available from Tiger for competition use.

Position the locator into the arm and centralise the bolt in the spring locator in the Sierra housing arm with an M8 bolt and large washers, this is to centralise the springs as best as possible a new hole can be drilled if required, put in the spring on top of the locator –jack up the arm until the spring is slightly compressed inside the chassis round tube-the shocks can now be fitted fig 7

7.3 Rear shock absorbers

The rear shock absorbers are fitted to the brackets located on the rear upper chassis and on the lower Sierra suspension; Tiger can supply optional adjustable shock absorbers if required. Use large washers to pack out between shocks and brackets (not tube)

7.4 Rear brakes

New flexible brake pipes are supplied with the Cat kit, the brake assemblies from the Sierra donor car should be checked over and replaced if necessary, the hand brake cables can be fitted at this stage and left unconnected on chassis.

7.5 Handbrake

The Cat uses the hand brake lever from the Sierra, the lever is positioned in the brackets in the Centre of the chassis.

Clamp the Sierra hand brake cable in a vice, use a hacksaw to cut the inner cable 120mm from the outer cable on both sides, alternatively new handbrake cables can be purchased from Tiger if required.

Shorten the new centre cable supplied (cut threaded end) with eyelet
The shortened hand brake cable is fitted putting the eyelet to the lever; the other end is passed through the balance bar Both left and right hand brake cables go through

the small tubes welded on the chassis member, these tubes hold the outer cables in position, with the inner cables passing through the balance bar (a b) cable locks are used to hold in position (these locks must have small 5mm Hex cap head bolts fitted) see fig 2.4A

