

## 1.0 Build requirements

Before starting your kit car build; make sure that you have a clear working area, and plenty of space. Take one task at a time. Do not take short cuts and complete and finish off as you proceed. If you leave things to do later you will run into problems, sometimes having to dismantle what has already been done. Make a small radius gauge out of alloy, drill a 5mm hole and cut the alloy centrally through the hole, lightly file, this will leave you with a useful tool for testing edges for SVA. Use a tennis ball or similar 100mm-diameter ball for testing for protrusion regulations for SVA. Simply, if the ball can come into contact with the protrusion then it must be radiused to 2.5mm. To achieve good GRP finishing use 600 grade wet and dry paper around the edges to achieve a 2.5mm radius. Compound the edges after to obtain a polished finish; finally either use a finishing compound polish or "T" cut.

Read this entire build manual before starting the project. We would also recommend that you make yourself fully aware of the current SVA rules and regulations, the full document can be purchased from the test centres, or there are many publications through the Kit car media that are up to date and detailed enough for your Tiger build. Many Cats have already passed the SVA test, and if you follow our advice and instructions you should not have any problems in getting a pass.

Be careful when jacking the Cat, the central chassis members will support the car without the engine fitted, however when you are nearing completion you must jack under the lower suspension arms. Always support a jacked up vehicle with axle stands.

Make sure that you have or can obtain all the required tools to build the kit.

All protruding bolts and nuts must have any unnecessary thread sawn off, and be covered with plastic radiused covers, as supplied. This must be done throughout the build process, do not leave it until the end. As with all build manuals, you will need to interpret and adapt the building instructions into the method that you wish to use, continual upgrading of the kits makes it impossible to address every single little change, however we have tried to make the amateur build manual work for you. Remember this is an interesting and challenging building project, not an assembly exercise like a Meccano set, the final result will be a unique individual car built to your requirements.

This manual has been designed to assist you with the kit build, it is your responsibility to check dimensions and fittings carefully before drilling and cutting. The measurements advised in this manual are to the best of our knowledge correct, but you should decide if you wish to use the suggestions we have made, or modify to your own specification. The author of this manual cannot be held responsible, in any way, for any wrongly positioned holes, parts or build errors.

### 1.1 Kit parts listing

The Cat is a Ford Sierra based kit, although it is possible to fit other engines, you will still need a Sierra as a donor for many of the parts. You can purchase all the donor parts already stripped from a Sierra from Tiger if required.(also we can supply all donor parts reconditioned)

You can either purchase the whole kit at one time or buy the build packs as and when required, also see the optional extra lists. Tiger will provide you with a comprehensive list of the kit parts that you are due to receive, carefully check these kit parts on receipt, and advise Tiger if you have any shortages. Unfortunately, at times during the year some parts become short stock items, so you may have to occasionally wait for delivery.

### 1.2 Donor parts listing

### Ford Sierra

- Rear independent suspension, hubs and brakes.
- Differential and drive shafts.
- Master cylinder and balance compensatory/regulator valve.
- Wheels (Alloys are available from Tiger).
- Steering column-Stalks and lock
- Engine, clutch and general accessories
- Gearbox and gear lever.(5 speed)
- Ignition system, coil and distributor.
- Carburettor. (Twin 40 or 45 carburettors are available from Tiger).
- Gearbox mounting plate.(use only centre rubber part)
- Steering shaft (we modify)
- Front suspension legs, discs and brakes.(we modify legs)
- Windscreen washer bottle.
- Remove fuses, but not fuse box.
- Starter motor.

### Mini

- Wiper motor and wheel boxes
- Cooling fan (you can use and modify various other types) or purchase a new tiger rad fan
- Heater-we recommend using a heater unit from vw polo mk2 (slight modification)

It is advisable to fit the following new parts to the kit when building, it is believed to be false economy to reuse existing donor parts unless they are nearly new.

- Alternator (see build manual for type to use).
- Water pump.
- Fuel pump.
- Thermostat
- Cam belt.