

Section F - Rear Suspension

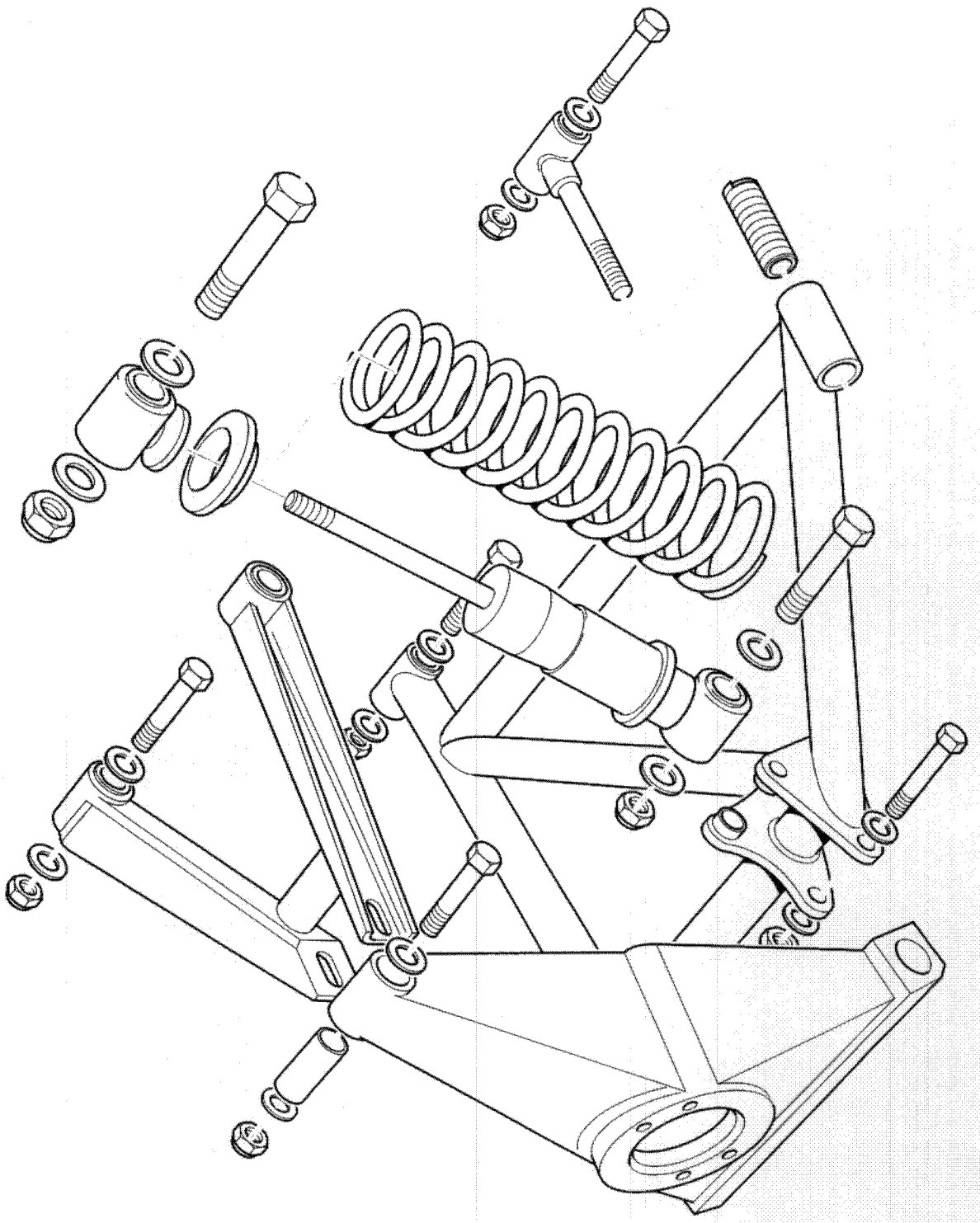
contents

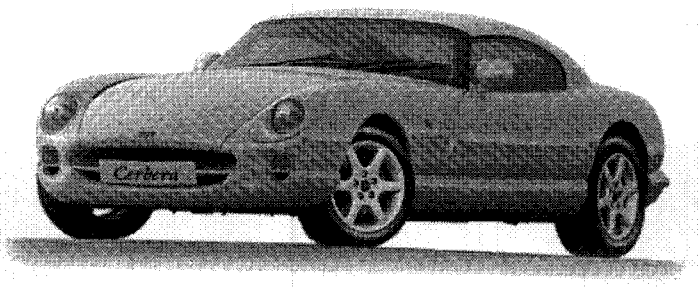
A
Upper Wishbones

B
Lower Wishbones

C
Anti-Roll Bar

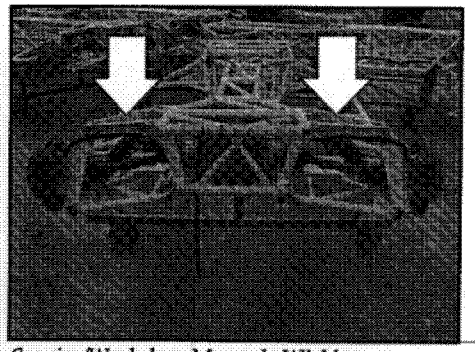
D
Dampers and Springs





Service / Workshop Manual

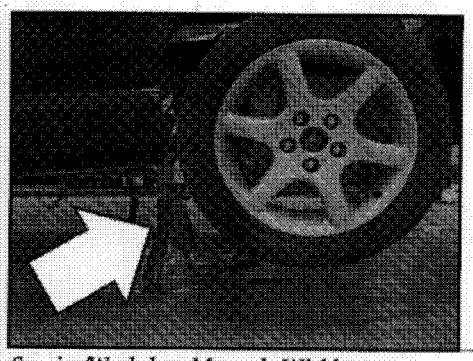
Rear Upper Wishbones



1

This procedure is to be repeated for both O/S and N/S upper wishbones.

Service/Workshop Manual -Wishbones



2

Raise the car and lower onto axle stands. Making sure to position the stands under the chassis so to leave the wishbones free.

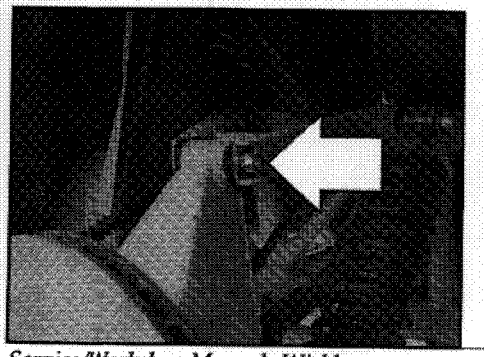
Service/Workshop Manual -Wishbones



3

Firstly, to gain access to the wishbones the wheel needs to be removed.

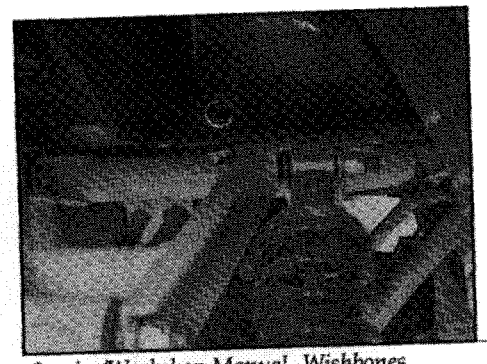
Service/Workshop Manual -Wishbones



4

Carefully cut the tie-wrap securing flexible B/pipe to wishbone. Remove the 7/16 UNF bolt, nut and washers which secure the rear upper wishbone to the rear upright.
N.B. The upright will need to be supported.

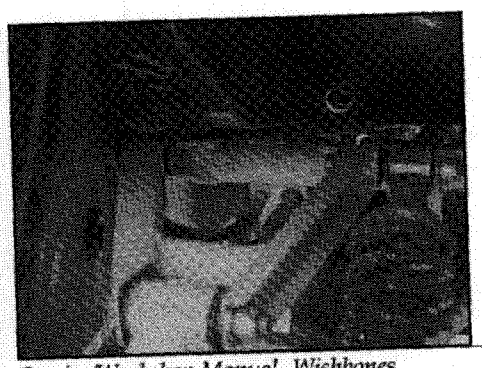
Service/Workshop Manual -Wishbones



5

Service/Workshop Manual -Wishbones

Remove the bolts that secure the upper wishbone to the chassis and remove wishbone. N.B. Support upright when removing wishbone.



6

Service/Workshop Manual -Wishbones

To refit, apply copper slip to inner wishbone mounting bolts and re-fit.



7

Service/Workshop Manual -Wishbones

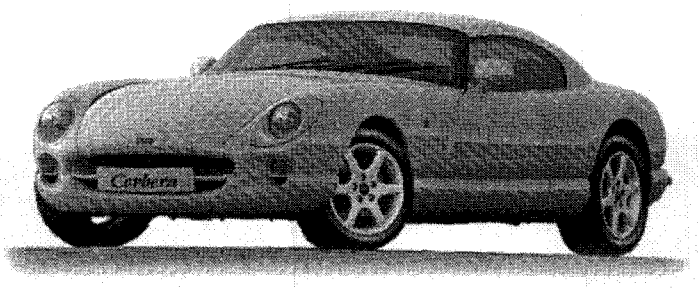
Align the upper hole on the upright and then apply copper slip, replace the 7/16 UNF bolt and washers. Lightly tighten on its nut. Tie-wrap the flexible brake pipe back into position. Ensure it is not twisted and it will not rub against anything.



8

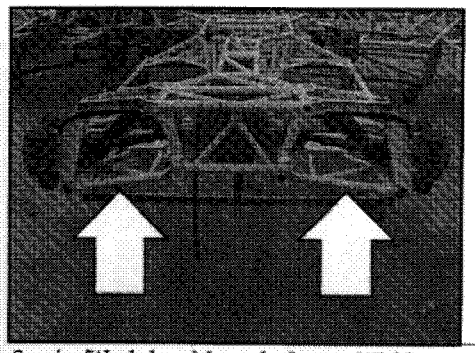
Service/Workshop Manual -Wishbones

Finally refit the wheel and torque the nuts. With the car settled at ride height, torque the inner wishbone bolts and reset the wheel cambers and tracking. Once correct torque the upper upright bolt.



Service / Workshop Manual

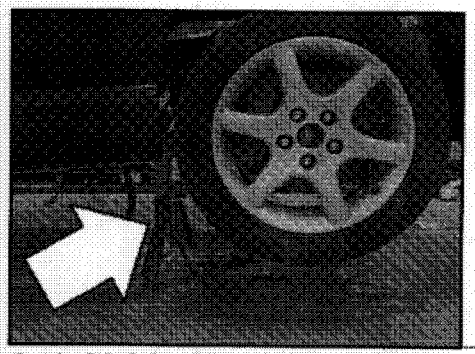
Rear Lower wishbones



1

Service/Workshop Manual - Lower Wishbones

This procedure is to be repeated for both O/S and N/S lower wishbones.



2

Service/Workshop Manual - Lower Wishbones

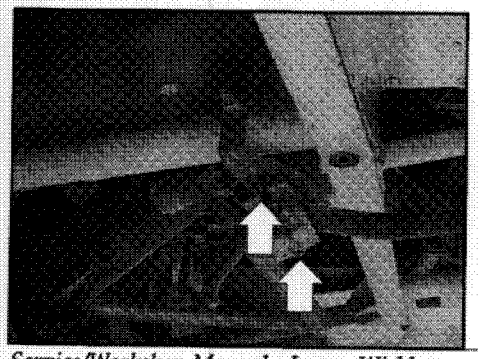
Firstly raise the car and lower onto axle stands. Making sure to position the stands under the chassis so to leave the rear wishbones free.



3

Service/Workshop Manual - Lower Wishbones

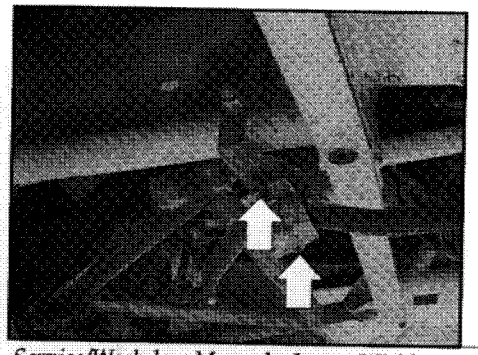
Next, to gain access to the rear wishbones the wheel needs to be removed.



4

Service/Workshop Manual - Lower Wishbones

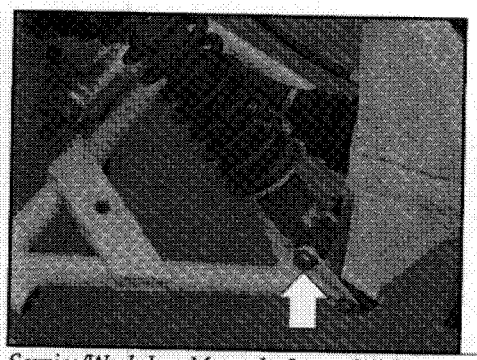
Remove the rear anti-roll bar by removing the 4 M8 nuts on the bracket which secure it to the chassis.



5

Service/Workshop Manual - Lower Wishbones

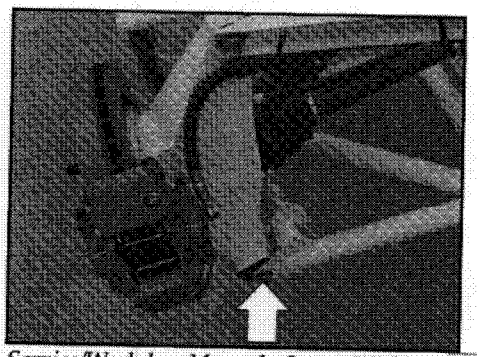
Remove the drop link from the wishbone that is being worked on and swing the anti-roll bar to one side.



6

Service/Workshop Manual - Lower Wishbones

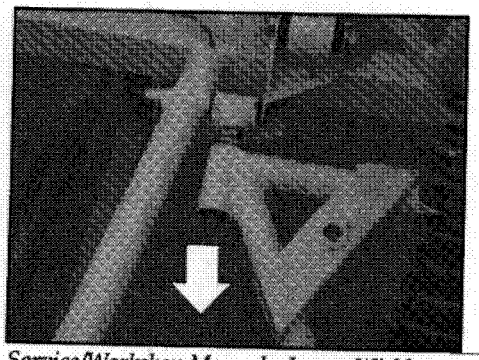
Supporting the upright, remove the Damper to lower wishbone securing nut, washers and bolt need to be removed. -7/16 UNF.



7

Service/Workshop Manual - Lower Wishbones

Then remove the lower wishbone to upright bolts, nut, flat washers + vesconite washers. N.B. Ensure that the upright is supported whilst this operation is being completed.



8

Service/Workshop Manual - Lower Wishbones

The lower wishbone to chassis bolt can be removed and the lower wishbone can be removed.



Service/Workshop Manual - Lower Wishbones

9

Refit the wishbone in the reverse order ensuring that all the vesconite washers have been cleaned and copper slip has been applied to both faces of each washer.

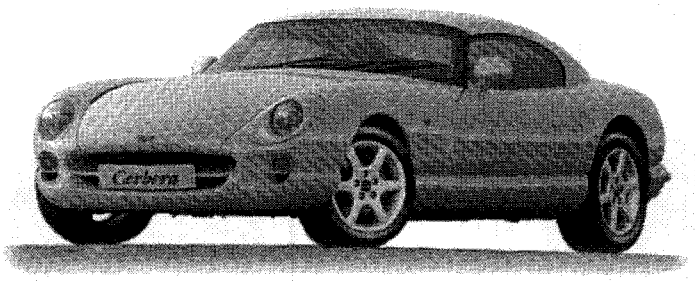


Service/Workshop Manual - Lower Wishbones

10

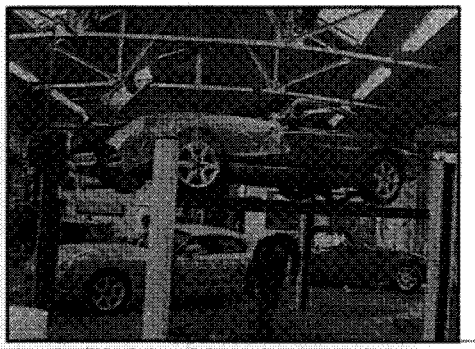
Finally refit the wheel and torque the nuts. With the car settled at ride height, torque the inner wishbone bolts and reset the wheel cambers and tracking. Once correct torque the upper upright bolt and anti-roll bar drop link.

Notes



Service / Workshop Manual

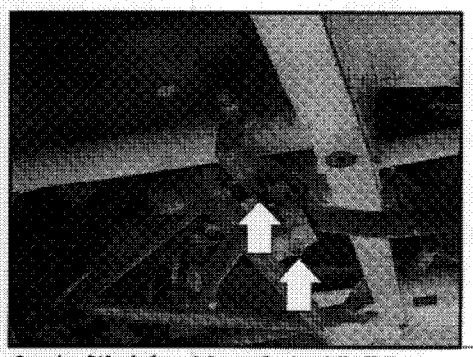
Rear Anti-Roll Bar



Service/Workshop Manual -Anti-Roll Bar

1

To remove the anti-roll bar the car has to be raised on a ramp or driven over a pit to gain better access to the underside.



Service/Workshop Manual -Anti-Roll Bar

2

Next remove the 4 x M8 nuts which secure the anti roll bar, rubber bushes and fixing bracket to the anti roll bar securing plate.



Service/Workshop Manual -Anti-Roll Bar

3

Disconnect the anti-roll bar from both drop links by removing the M10 x 1mm nuts and washers.



Service/Workshop Manual -Anti-Roll Bar

4

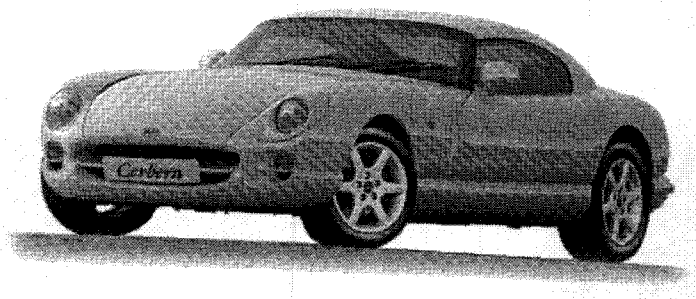
The roll bar will then come free.



Service/Workshop Manual -Anti-Roll Bar

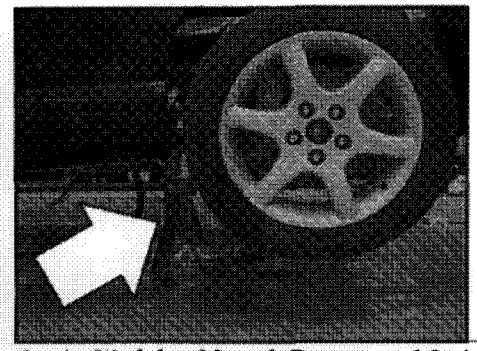
5

To replace a new anti roll bar or the bushes or brackets reverse the outlined procedure remembering to copper slip bolts.



Service / Workshop Manual

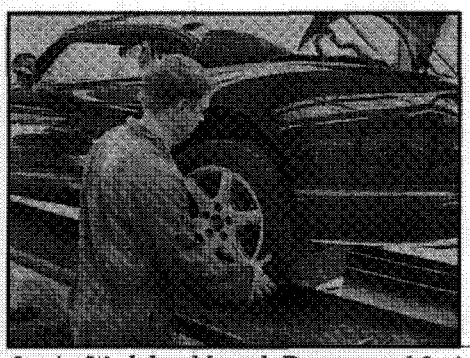
Rear Dampers and Springs



1

Firstly raise the car and lower onto axle stands. Making sure to position them under the chassis to leave the suspension free.

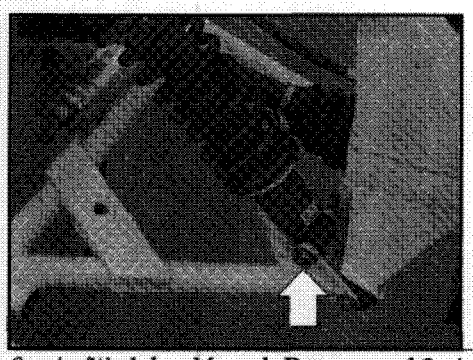
Service/Workshop Manual -Dampers and Springs



2

Next remove the wheels.

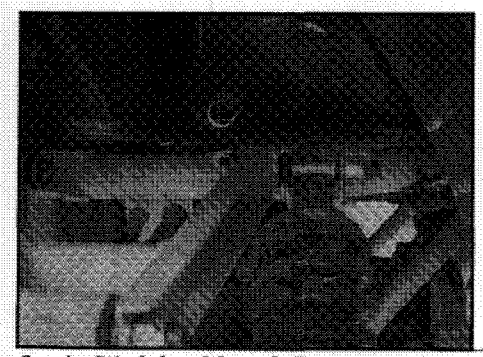
Service/Workshop Manual -Dampers and Springs



3

Supporting the upright remove the 7/16 UNF bolts that secure the damper assembly to the lower wishbone.

Service/Workshop Manual -Dampers and Springs



4

Remove the upper securing 7/16 UNF bolt. Avoid removing the bolt completely because sometimes it can be awkward lining up the wish bone bush within the mounting ear.

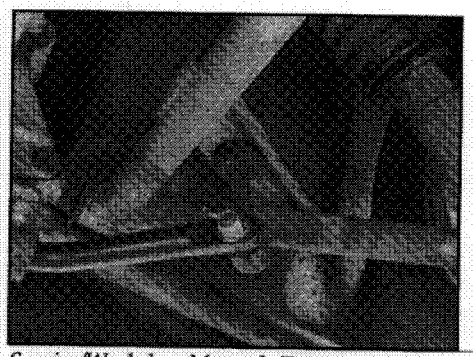
Service/Workshop Manual -Dampers and Springs



5

Service/Workshop Manual -Dampers and Springs

Carefully remove the damper assembly through the lower wishbone.



6

Service/Workshop Manual -Dampers and Springs

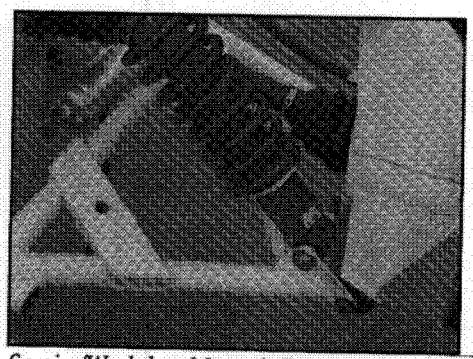
However, if it is difficult to free the damper assembly then remove the Lower Drop Link this will allow more room to remove the assembly.



7

Service/Workshop Manual -Dampers and Springs

If the spring requires replacing, the TVR spring compressor must be used to compress the spring.



8

Service/Workshop Manual -Dampers and Springs

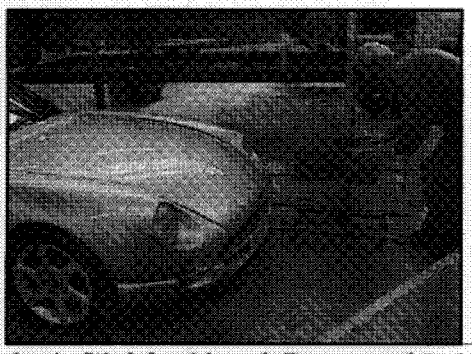
To replace, reverse the outlined disassembly procedure using copper slip on damper bolts.



9

Service/Workshop Manual -Dampers and Springs

Do not tighten the damper bolts fully. When the car is settled on wheels torque the upper and lower fixing bolts. Torque to 45-50 ft lb.



10

Service/Workshop Manual -Dampers and Springs

If the springs have been replaced, check that ride height and headlamp aim are within tolerances.

Notes