

The keyword to change the amount of HF exchange is called b3-lyp\_own.  
In the control file the syntax looks like this:

```
$dft
functional b3-lyp_own 0.15 1.0
gridsize m3
```

In the output the formulars with the scaling factors are given then.

```
-----
density functional
-----
```

```
B3-LPY with your own HF weights
exchange:  A * HF + (1-A) * LDA + B * 0.72*B88
original B3-LYP: A=0.2, B=1.0
correlation: 0.19*LDA(VWN) + 0.81*LYP
Found B3-LYP_own functional with :
Scaling factor for HF: A= 0.1500000000000000
Scaling factor for Becke: B= 1.0000000000000000
```

The above settings are for the 15% exchange.