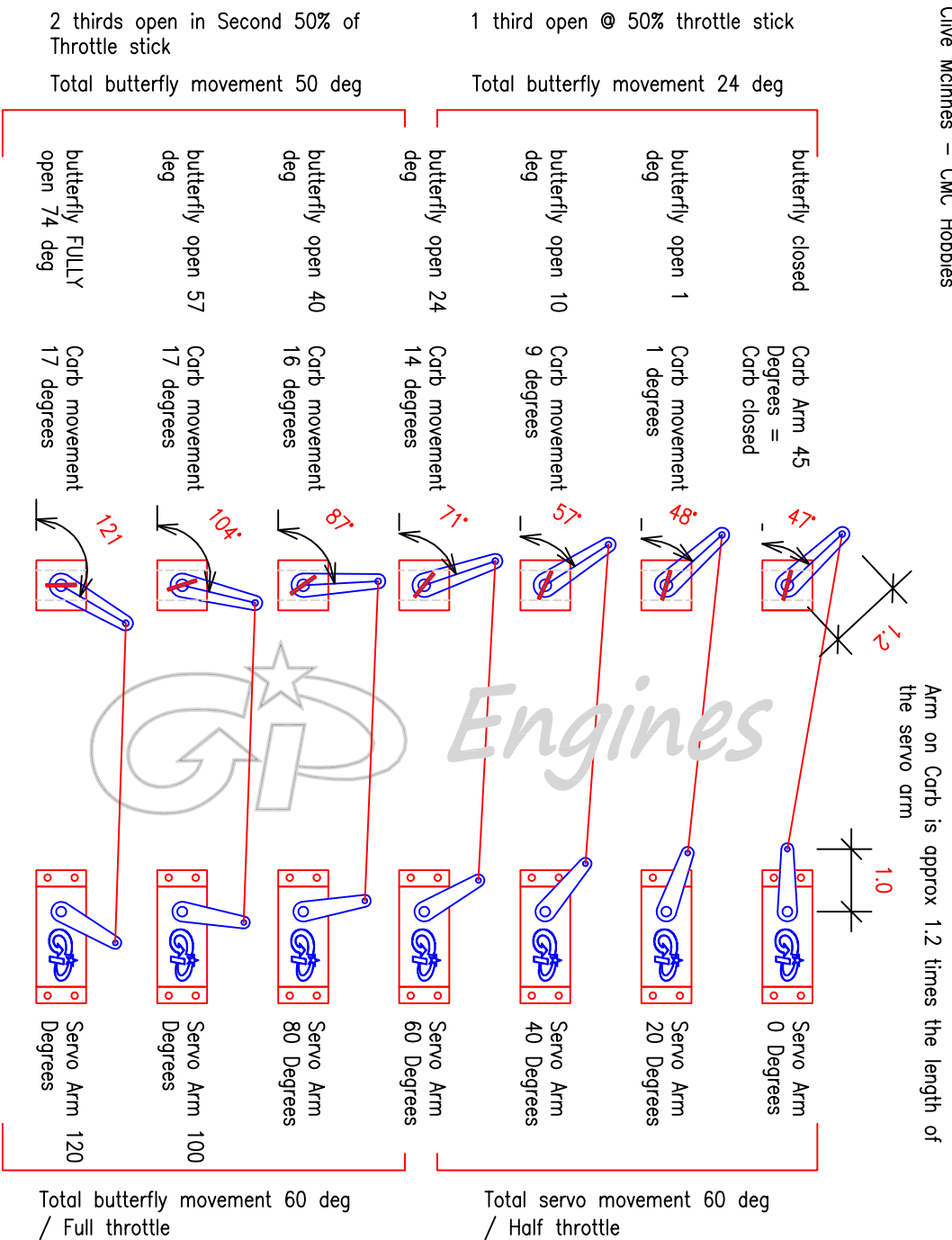


THRITTLE SERVO GEOMETRY – correct setup ensures full resolution of the servo as well as a mechanical throttle curve. Fine tuning of the throttle curve can then be done on the radio later.

Clive McInnes – CMC Hobbies



Carb butterfly will move a total of approx. 75 degrees – whilst servo movement is the full 120 degrees – this gives good resolution of the servo for finer throttle movements. With regards the 1/3 and 2/3 open – with the setup as I have drawn it, what will happen is that when you move the throttle stick on the transmitter from closed to 50% – the carb butterfly will only be 1/3 open. During the next 50% of the travel of the stick on the transmitter the carb butterfly will open the last 2/3rd of its movement. This builds in a mechanical exponential curve on the carb. A throttle curve is always required if you want to achieve a linear throttle response from the engine. With all Walbro and similar carbs you will find that they reach full rpm quite far before the butterfly of the carb is fully open, this is why we set a curve into the carb butterfly opening, achieving the linear engine response.