

## PCM10 and Twin Engine Aircraft.

Two throttle servos on the model may be operated by the transmitter throttle stick, with each being switch disabled to a high tick-over position while the other continues to be controlled by the throttle stick. This is needed for starting although it could also be used to assist turning on the ground. Each servo has its own trim.

**Channel allocation:**      Left engine servo - Throttle channel (1)  
                                     Right engine servo - AUX3 channel (8)

The three position AUX2 switch is used to direct the throttle control and the AUX3 lever acts as throttle trim for the right engine servo. Please note that while the left engine servo throttle trim operates only when the throttle stick is below half, the AUX3 lever, acting as the right engine servo throttle trim, operates over the whole throttle stick range. The AUX3 lever can therefore be used to balance the engines on full power. It is recommended that code 28 is used to reset the model memory before setting these mixes. Use code 17 to enable the AUX2 and AUX3 controls.

**Reduce the affect of the AUX3 lever so that it acts only as a trim.** Use code 51 to mix AUX3 (channel 8) -> AUX3 (channel 8), -80% each side of neutral. Leave the offset at 0. Leave the mix type at NORM and the switch selection at "FIX" (always on). This will cause the AUX3 lever to act only as a trim, with about 20% servo travel with full movement of the AUX3 lever. Use the mix percentage to adjust the travel. (e.g. -90% will give 10% movement, -70% will give 30% movement.)

**Operate two servos from one transmitter control, enabled with the AUX2 switch.** Use code 52 to mix throttle (channel 1) -> AUX3 (channel 8), +100% each side of neutral. Leave the offset at 0. Leave the mix type at NORM and the trim at OFF. Enable the mix with switch selection "AXM" (AUX2 switch in the middle position). This will cause the AUX3 servo (right engine) and the throttle servo (left engine) to be controlled together by the transmitter throttle stick when the AUX2 switch is in the middle position.

**Operate two servos from one transmitter control, enabled with the AUX2 switch.** Use code 53 to mix throttle (channel 1) -> AUX3 (channel 8), +100% each side of neutral. Leave the offset at 0. Leave the mix type at NORM and the trim at OFF. Enable the mix with switch selection "AXU" (AUX2 switch in the upper position). This will cause the AUX3 servo (right engine) and the throttle servo (left engine) to be controlled together by the transmitter throttle stick when the AUX2 switch is in the upper position.

**Disable the throttle servo (left engine) when the AUX2 switch is at the top. Set a high tick-over position.** Use code 54 to mix throttle (channel 1) -> throttle (channel 1) -100% each side of neutral. Move the transmitter throttle stick to the required "high tick-over" position and store the offset. (-70 is a good start position.) Leave the mix type at NORM, the trim at OFF and enable the mix with the AUX2 switch in the upper position (AXU). With the AUX2 switch in the upper position, the throttle servo (left engine) moves to the selected "high tick-over" position while the AUX3 servo (right engine) is controlled by the transmitter throttle stick.

**Set a high tick-over position for the AUX2 servo (right engine).** Use code 55 to mix AUX2 (channel 7) -> AUX3 (channel 8) +90% with the AUX2 switch in the lower position. Leave the offset at 0. Leave the mix type at NORM. Enable the mix with switch selection "AXD" (AUX2 switch in the lower position). Use the mix percentage to adjust the throttle servo (right engine) "high tick-over" position (+95% will give a 5% position, +80% will give a 20% position.) With the AUX2 switch in the lower position, the throttle servo (right engine) moves to the selected "high tick-over" position while the throttle servo (left engine) is controlled by the transmitter throttle stick.