Step 41 CCPM Swashplate Linkage

There are three servos are mounted on the front and rear servo brackets. They work together to tilt the swashplate producing the collective pitch, roll cyclic pitch (aileron control) and the fore-aft cyclic pitch (elevator control). The servo horns provided in the radio will not be long enough to achieve the full collective range, the control ball is required to be mounted at a distance of 25-26mm from the center of the servo. It is recommended to use Century's optional metal servo arms as follows:
(CN2189 - Futaba, CN2185 - JR/Airt, CN2181 - Hitec) for all standard plastic output shaft servos.
(CN2279 F-Futaba, J-JR, H-Hitec) for all metal output shaft servos.

Attach one steel ball with one 2mm nut to the under-side of the rear servo horn and to the top-side of the two horns for the front servos using threadlock. With the radio turned on and the trims centered, attach the rear servo horn parallel to the body of the servo and the CCPM Rear (E) Pushrod. Similarly, attach the front servo horns mounted 90 degrees to the servo with the CCPM Front (D) Pushrods.

Move the collective stick to its maximum position and watch for any roll (aileron) or pitch (elevator) inputs. If an input is found, the problem will be one of the following in the table. The table describes the symptom and the steps to correct them.

Symptom	Corrective Solution
metal control ball distance	move ball location to match other servos, or carefully use ATV
angle of horn & servo not 90^0	use subtrims to set exactly at 90 degrees
angle of horn & linkage not 90^0	use subtrims to set exacly at 90 degrees, noticeable at extremes
swashplate not level	adjust pushrod length to level