

## Step 40 Pushrod Setup and Adjustments

Make up all the control pushrods according to the specified lengths shown in the table. Please note that the dimensions listed are from center to center of the ball ends (this has changed from earlier manuals). Depending on the servo brand, the servo horn offers different patterns for fine tuning.

After attaching the pushrods to the helicopter, the washout arms will be level at 0° (horizontal) collective for 3D flying. Beginners should follow the setup steps and pitch curves for Hovering in the final adjustments. Note: It is very important that before you install the pushrod linkages that you first charge your radio then remove all the servo horns from the servos and center all the mechanical or electronic trims on the radio.



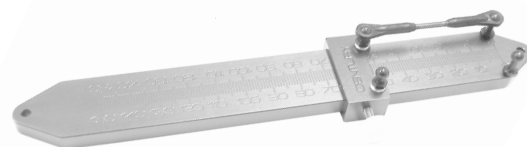
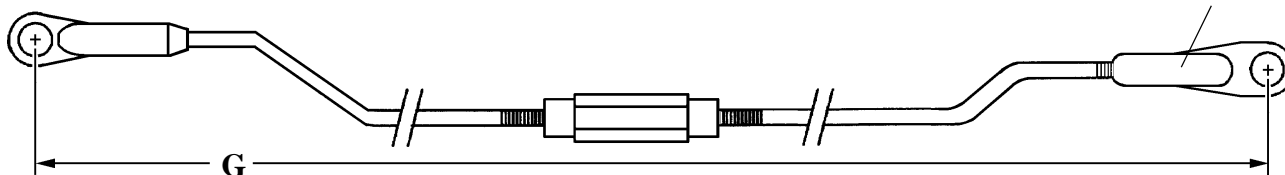
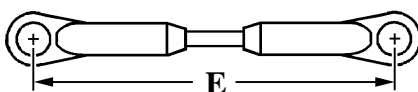
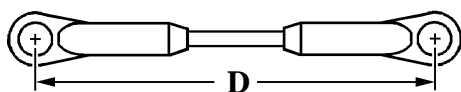
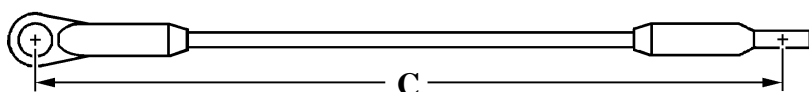
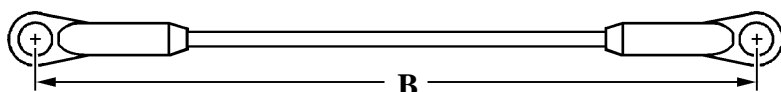
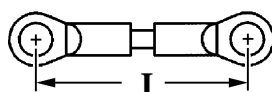
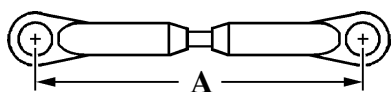
**Note:** All dimensions are in millimeters and are measured from the centers of the control balls or ball ends.

Ball Link Set  
[HI3145]

Pushrod Set  
[HW3192A]

Due to the different types of radio and servos that are chosen to install into the helicopter, match each pushrod to the lengths in the table for optimum setup.

Location	ID	Rod	Sport	3D
Washout to flybar (2)	A	25	44	47
Throttle servo 30	B	75	96	96
Throttle servo 50	B	75	92	92
Bell mixer to SWP (2)	C	80	97	99
Front CCPM servo (2)	D	25	53	53
Rear CCPM servo	E	25	48	48
Bell mixer to seesaw (2)	I	15	28	26
Tail rotor pushrod 30	G		763	763
Tail rotor pushrod 50	G		823	823



(Optional Part)  
**CN2255 Control Rod Setup Gauge** - Easily duplicates pushrods by attaching a **master pushrod** and match new **pushrods** as they are assembled. Gauge has millimeter scale for accurate lengths center to center.

**Tail Pitch Control Rod & Connector**  
[HW3064E] - R30  
[HW3064F] - R50