

TABLE 2-2. ACTUATOR MODEL APPLICATION AND TORQUE VALUES

Model	Elevator Actuator		Torque Setting Required	Aileron Actuator		Torque Setting Required
	Part No.	Type No.		Part No.	Type No.	
172	26360-0000	(PA-510A)	22 lb-ins	26360-0000	(PA-510A)	30 lb-ins
180	26360-0000	(PA-510A)	18 lb-ins	26360-0000	(PA-510A)	30 lb-ins
182	26360-0000	(PA-510A)	22 lb-ins	26360-0000	(PA-510A)	30 lb-ins
185 Series	26360-0000	(PA-510A)	15 lb-ins	26360-0000	(PA-510A)	30 lb-ins
200 Series	26360-0000	(PA-510A)	15 lb-ins	26360-0000	(PA-510A)	30 lb-ins
310 Thru 1965	29510-0500	(PA-511A-5)	18 lb-ins	29510-0300	(PA-511A-3)	25 lb-ins
310, 1966 & on	29510-0500	(PA-511A-5)	18 lb-ins	29510-0500	(PA-511A-5)	18 lb-ins
320, Thru 1966	29510-0500	(PA-511A-5)	18 lb-ins	29510-0300	(PA-511A-3)	25 lb-ins
336	29510-0200	(PA-511A-2)	5 lb-ins	29510-0000	(PA-511A)	30 lb-ins
337	29510-0400	(PA-511A-4)	9 lb-ins	29510-0000	(PA-511A)	15 lb-ins

2-8. POST-INSTALLATION ADJUSTMENTS.

Set operating controls as follows:

Pitch Command	Centered and in detent
Pitch Trim	Centered
Turn Command	Pulled out and in detent
Roll Trim	Centered
Heading	0°
ON-OFF	OFF
OMNI-HDG	HDG
ALT ON-OFF	OFF
Engage Switch	OFF (if installed)

Extend computer amplifier cable with 10182-038 Cable Assembly as required to facilitate computer amplifier adjustments.

Actuator Centering - Models 310, 320, 401 & 402.

- Step 1. Load aircraft to weight & balance conditions under which it will be used the most. Fly to safe altitude, set up cruise conditions and trim for level flight.
- Step 2. Separate actuator halves and turn ON-OFF and Engage switches "ON". After actuators run to neutral, install electrical half of actuator. Proceed to Electrical Adjustments.

CAUTION

Two of the transistors mounted on the outside of each actuator have above-ground potentials on their cases. These transistors are insulated from ground by a fiber washer under each mounting screw. When removing the actuator halves, avoid grounding the cases of either of these transistors.

Actuator Centering - All models except 310, 320, 401 & 402.

- Step 1. Turn gyro disable switch on rear of controller to "OFF". Separate halves of actuators and turn autopilot ON-OFF and Engage switches "ON." Hold control surfaces in approximate level flight positions and reinstall actuator halves. Turn autopilot "OFF". Turn gyro disable switch back to "ON".
- Step 2. Load aircraft to weight and balance conditions under which it will be used most. Fly to safe altitude, set up cruise conditions and trim for level flight. Turn autopilot "ON" and retrim for level flight using pitch and roll trim controls. Leave trim controls in this position, turn autopilot "OFF" and land aircraft.