

ATTACHMENT 4

KS 270C Pitch Servo Actuator Test Data Sheets

KS 270C FINAL DATA SHEET FOR -0200/2200 FLAVOR

SERIAL # 11476

PROC	MPS	STEP	REF.	TEST DESCRIPTION	LIMITS	DATA
K		4.1		Ohm Meter Measurement	(NMT 2 ohms)	<u>✓</u> VOK
L		4.2.1		External Strapping Test Input @ 27.5	(Solenoid engages & disengages)	<u>✓</u> VOK
M		4.2.2		Solenoid Engage – Pulling against gravity Input NMT @ 20.6v	(Solenoid engages & disengages)	<u>✓</u> VOK
N		4.3		Motor Breakout and Direction CW Input = +0.20 CCW Input = -0.20	(CCW Pinion Gear & Positive Tach Voltage) (CW Pinion Gear & Negative Tach Voltage)	<u>✓</u> VOK <u>✓</u> VOK
O		4.5/4.7		Speed Characteristics, Phasing & Tach Scale Factor		
				CCW Tach Output	(CCW Capstan & Negative Tach Voltage)	<u>✓</u> VOK
				CCW Speed (-8.0V)	(21.0 to 29.0 Seconds)	<u>25.8</u> Sec
				CCW Tach Output Voltage	(See Table 2)	<u>-4.6</u> Vdc
				CCW Speed (-4.0V)	(42.0 to 58.0 Seconds)	<u>49.6</u> Sec
				CCW Tach Output Voltage (OFF)	(-0.1 to +0.1 Vdc)	<u>✓</u> VOK
				CW Tach Output	(CW Capstan & Positive Tach Voltage)	<u>✓</u> VOK
				CW Speed (+8.0V)	(21.0 to 29.0 Seconds)	<u>24.9</u> Sec
				CW Tach Output Voltage	(See Table 2)	<u>4.6</u> Vdc
				CW Speed (+4.0V)	(42.0 to 58.0 Seconds)	<u>49.9</u> Sec
				CW Tach Output Voltage (OFF)	(-0.1 + 0.1 Vdc)	<u>✓</u> VOK
P		4.8		Tach Time Constant (-0X00 Flavors only) Time to 63% of Maximum Output (442 to 598 mSec)		<u>NA</u> mSec
Q		4.9		Valid Output		
				VLDTST NRML	(Valid-L "ON")	<u>✓</u> VOK
				VLDTST LO	(Valid-L "OFF")	<u>✓</u> VOK
				VLDTST NRML	(Valid-L "ON")	<u>✓</u> VOK
				VLDTST HI	(Valid-L "OFF")	<u>✓</u> VOK
R		4.6		Torque Characteristics		
				CW	(Disengages)	<u>✓</u> VOK
				CCW	(Disengages)	<u>✓</u> VOK
S		4.4		Strain Gauge Sensing		
				CW TRIM Sense	(1.0 ±0.20 Vdc)	<u>✓</u> VOK
				CCW TRIM Sense	(-1.0 ±0.20 Vdc)	<u>✓</u> VOK
				Trim Sense (-0X00 Flavors)	(-0.07 to +0.07 Vdc)	<u>NA</u> VOK
				J-M (-2X00 Flavors)	(-0.05 to +0.05 Vdc)	<u>✓</u> VOK
				R-M (-2X00 Flavors)	(-0.05 to +0.05 Vdc)	<u>✓</u> VOK

TESTED BY: _____

DATE

5/22/18