,		HENAL GO ELECTRIC	P3K-AL-0307-A	MO 1
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CONT ON SHEET 3 SH NO.		FOR EHC MARK II (SPEED CON		
				REVIS
III. CIRCUIT SPECI	[FICATIONS			
A. POWER SUE	PPLY REQURIEMENT	<u>'S</u>		1975
Plus Supp (Pin 37)	ply: +22.000 + (plus supp	.002 VDC ly draws approx. 70 ma)	 A control of the contro	6 L3
Minus Sup (Pin 41)	oply: -22.000 <u>+</u> (Minus sup	.002 VDC ply draws approx. <u>70</u> ma)		0 79/
_			ئىدى رازان ئىسىدىدىسى ئەرمەن دارىيى ئارانى	O.MORC
	SIGNAL LEVELS			30.
(no input	signals require		en e	
C. OUTPUT LOA	ADS			
		ry LVG = 9.09K + 1% @ pin 27	er in the state of the state of	
	•	LVG = 9.09K + 1% @ pin 28.	(K	4
		Primary LVG = 60.4K + 1% @	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	(**
		Backup LVG = $60.4K + 1\%$ @ p:	in 29/) cor	
Accel	L. Ref. to Prima	ry LVG	SELGET	
	SLOW = MEDIUM = FAST =	100K + 1% @ pin 16 100K + 1% @ pin 18 100K + 1% @ pin 20	CONN TO	3
V7.1.			TES T SPEED	
Wobbu	lator Signal to	Primary & Backup LVG = 44.8	K + 1% or	
		grou @ pi	md (when not in u	se) `
			*	
				•
				•
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Mone Nov. 2, 1972	APPROVALS	Steam Turbine DIV OR DEPT. Schenectady, NY. LOCATION	P3K-AL-0372-A01	PRINTS T

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P3K-AL-0307-A01	TEST INSTRUCTIONS FOR SPEED CONTRO	T PEFFUENCES
CONT ON SHEET 4 SH NO. 34		
III. CIRCUIT SPECIFICAT	IONS (continued)	REV
		SIGNAL SPECIFICATION
	ED, SUPPLEM, & ACCELERATION REFERENCE	DISTRIBUTION DISTRIBUTION
RATED SPEED HO	LD = +9.000 + .090 VDC	O ,
OVERSPEED = +9	.000 ± .090 VDC	130
TEST BACKUP SP	EED AMPLIFIER (15.3V & 9V Zeners Regu	
•		lating)
Range: max. = min. ≈	+.298 + .031 VDC (VR4 Full CW) Zero (VR4 Full CCW)	
Sot Doint		3
per lotur: = -	+0.150 + .001 VDC	- 3
SLOW ACCEL.		en e
Range: max. = min. =	+.021 + .002 VDC (VR1 Full CW)	
	(VILL THIE GOW)	
Set Point: = +	.0111 + +.0001 VDC	
Imprine Acces		
MEDIUM ACCEL.		
Range: max. =	+.031 + .003 VDC (VR2 Full CW)	
min. =	(TRZ FULL COW)	The state of the s
Set Point: = +	.0167 + .0001 VDC	and the second of the second o
FAST ACCEL.		
Range: max. =	+.059 + +.006 VDC (VR3 Full CW)	
min. =	Zero (VR3 Full CCW)	
Set Point: = +	.0333 <u>+</u> .0001 VDC	
	The second secon	
		The second secon
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	0. 9.9.090 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
		and the state of t
		PRINTS
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SH NO.

FIRST MADE FOR

EHC MARK II (SPEED CONTROL UNIT)

CIRCUIT SPECIFICATIONS (continued) III.

WOBBULATOR PERFORMANCE SPECIFICATIONS

Power Supply (CR1, CR2, CR3, CR4)

TP1: +15.7 + 1.0 VDCTP2: -15.7 + 1.0 VDC

(with respect to TP11)

TEST INSTRUCTIONS FOR SPEED CONTROL REFERENCES

Wobbulator Lower Limit

IC2 Pin 3 = -2.629 + .335 VDC -2.964(when Q1 ON, & Q2 OFF)

Wobbulator Upper Limit 3.

> IC2 Pin 3 (when Q2 OFF, & Q2 ON)

Range: max. = $+3.892 \pm .147$ VDC (VR51, Max CW) 4.039, 3.745 min. = $+1.274 \pm .360$ VDC (VR51, Max CCW) 1,634, .9/4

= Set Upper Limit Equal to Lower Limit. Set Point:

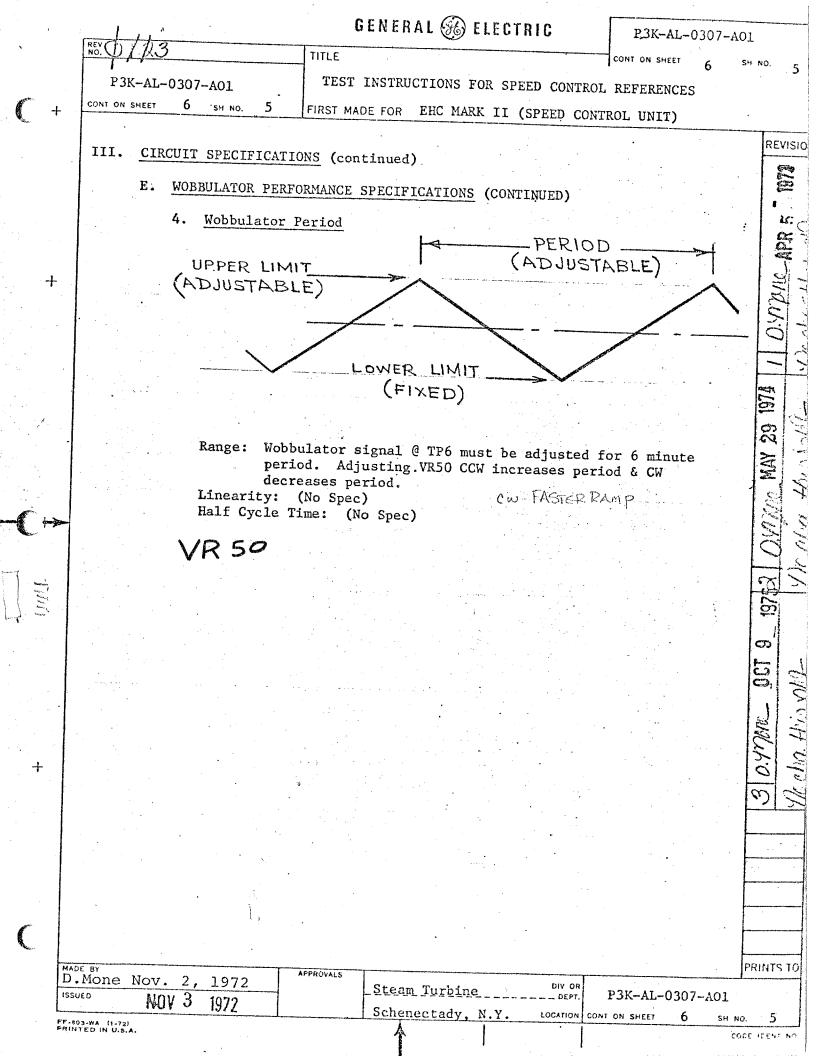
Above Max, Min, & Tolerance Values are based on nominal supply voltage of +15.7 & -15.7. The above values will change with variations in supply voltage. See Table I for allowance variations.

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Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max.	Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max. CW CCW	, , , , , , , , , , , , , , , , , , , ,	<u>+</u> .360	
Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max. CW CCW	Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max. CW CCW	<u>CW</u> <u>CCW</u>	<u>+</u> .371	\$
Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max. CW CCW -14.7 4.889 ± .147 2.270 ± .360 +16.7 -15.7 4.514 ± .152 1.812 ± .371	Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max. CW CCW -14.7 4.889 ± .147 2.270 ± .360 +16.7 -15.7 4.514 ± .152 1.812 ± .371	-14.7 4.889 ± .147 2.270 ± .		1
Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. CW CCW CCW CCW CCW CCW CCW CCW CCW CCW	Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. CW CCW CCW CCW CCW CCW CCW CCW CCW CCW	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<u>+</u> .383	8
Positive supply voltage @ TP2	Positive supply voltage @ TP2	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	- -	V V V V V V V V V V V V V V V V V V V
Positive supply voltage @ TP2	Positive supply voltage @ TP2	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	+ .348	V V V V V V V V V V V V V V V V V V V
Positive supply voltage @ TP1	Positive supply voltage @ TP1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<u>+</u> .348 <u>+</u> .360	OC NAME OF STREET
Positive supply voltage @ TP2	Positive supply voltage @ TP2	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<u>+</u> .348 <u>+</u> .360	SO NAM
Positive supply voltage @ TP2	Positive supply voltage @ TP2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ .348 + .360 + .371	1078 O DESCRIPTION OF PERSONS OF
Positive supply voltage @ TP2	Positive supply voltage @ TP2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4074 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Positive supply voltage @ TP2	Positive supply voltage @ TP2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4074 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Positive supply voltage @ TP2	Positive supply voltage @ TP2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4074 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Positive supply voltage @ TP2	Positive supply voltage @ TP2	CW CCW -14.7 $4.889 \pm .147$ $2.270 \pm .$ +16.7 $4.514 \pm .152$ $1.812 \pm .$ -16.7 $4.1394 \pm .156$ $1.355 \pm .$ -14.7 $4.266 \pm .142$ $1.731 \pm .$ +15.7 -15.7 $3.892 \pm .147$ $1.274 \pm .$ -16.7 $3.517 \pm .152$ $.816 \pm .$ -14.7 $3.644 \pm .138$ $1.192 \pm .$ +14.7 -15.7 $3.269 \pm .142$ $.735 \pm .$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4074 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Positive supply voltage @ TP2	Positive supply voltage @ TP2	CW CCW -14.7 $4.889 \pm .147$ $2.270 \pm .$ +16.7 $4.514 \pm .152$ $1.812 \pm .$ -16.7 $4.1394 \pm .156$ $1.355 \pm .$ -14.7 $4.266 \pm .142$ $1.731 \pm .$ +15.7 -15.7 $3.892 \pm .147$ $1.274 \pm .$ -16.7 $3.517 \pm .152$ $.816 \pm .$ -14.7 $3.644 \pm .138$ $1.192 \pm .$ +14.7 -15.7 $3.269 \pm .142$ $.735 \pm .$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	00 10 10 10 10 10 10 10 10 10 10 10 10 1
Positive supply voltage @ TP2	Positive supply voltage @ TP2	CW CCW -14.7 $4.889 \pm .147$ $2.270 \pm .$ +16.7 $4.514 \pm .152$ $1.812 \pm .$ -16.7 $4.1394 \pm .156$ $1.355 \pm .$ +15.7 $4.266 \pm .142$ $1.731 \pm .$ +15.7 $3.892 \pm .147$ $1.274 \pm .$ -16.7 $3.517 \pm .152$ $.816 \pm .$ -14.7 $3.644 \pm .138$ $1.192 \pm .$ +14.7 -15.7 $3.269 \pm .142$ $.735 \pm .$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	00 10 10 10 10 10 10 10 10 10 10 10 10 1
Positive supply voltage @ TP2	Positive supply voltage @ TP2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	00 10 10 10 10 10 10 10 10 10 10 10 10 1
Positive supply voltage @ TP2	Positive supply voltage @ TP2	CW CCW -14.7 $4.889 \pm .147$ $2.270 \pm .$ +16.7 $4.514 \pm .152$ $1.812 \pm .$ -16.7 $4.1394 \pm .156$ $1.355 \pm .$ -14.7 $4.266 \pm .142$ $1.731 \pm .$ +15.7 -15.7 $3.892 \pm .147$ $1.274 \pm .$ -16.7 $3.517 \pm .152$ $.816 \pm .$ +14.7 -15.7 $3.644 \pm .138$ $1.192 \pm .$ +14.7 -15.7 $3.269 \pm .142$ $.735 \pm .$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4074 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Positive supply voltage @ TP2	Positive supply voltage @ TP2	CW CCW -14.7 $4.889 \pm .147$ $2.270 \pm .$ +16.7 $4.514 \pm .152$ $1.812 \pm .$ -16.7 $4.1394 \pm .156$ $1.355 \pm .$ -14.7 $4.266 \pm .142$ $1.731 \pm .$ +15.7 -15.7 $3.892 \pm .147$ $1.274 \pm .$ -16.7 $3.517 \pm .152$ $.816 \pm .$ +14.7 -15.7 $3.644 \pm .138$ $1.192 \pm .$ +14.7 -15.7 $3.269 \pm .142$ $.735 \pm .$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4079
Positive supply voltage @ TP2	Positive supply voltage @ TP2	CW CCW -14.7 $4.889 \pm .147$ $2.270 \pm .$ +16.7 $4.514 \pm .152$ $1.812 \pm .$ -16.7 $4.1394 \pm .156$ $1.355 \pm .$ -14.7 $4.266 \pm .142$ $1.731 \pm .$ +15.7 -15.7 $3.892 \pm .147$ $1.274 \pm .$ -16.7 $3.517 \pm .152$ $.816 \pm .$ +14.7 -15.7 $3.644 \pm .138$ $1.192 \pm .$ +14.7 -15.7 $3.269 \pm .142$ $.735 \pm .$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4079
Positive supply voltage @ TP2	Positive supply voltage @ TP2	CW CCW -14.7 $4.889 \pm .147$ $2.270 \pm .$ +16.7 $4.514 \pm .152$ $1.812 \pm .$ -16.7 $4.1394 \pm .156$ $1.355 \pm .$ -14.7 $4.266 \pm .142$ $1.731 \pm .$ +15.7 -15.7 $3.892 \pm .147$ $1.274 \pm .$ -16.7 $3.517 \pm .152$ $.816 \pm .$ +14.7 -15.7 $3.644 \pm .138$ $1.192 \pm .$ +14.7 -15.7 $3.269 \pm .142$ $.735 \pm .$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4079
Positive supply voltage @ TP2	Positive supply voltage @ TP2	CW CCW -14.7 $4.889 \pm .147$ $2.270 \pm .$ +16.7 $4.514 \pm .152$ $1.812 \pm .$ -16.7 $4.1394 \pm .156$ $1.355 \pm .$ -14.7 $4.266 \pm .142$ $1.731 \pm .$ +15.7 -15.7 $3.892 \pm .147$ $1.274 \pm .$ -16.7 $3.517 \pm .152$ $.816 \pm .$ +14.7 -15.7 $3.644 \pm .138$ $1.192 \pm .$ +14.7 -15.7 $3.269 \pm .142$ $.735 \pm .$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4079
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Positive supply voltage @ TP2	Positive supply voltage @ TP2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4079
Positive supply voltage @ TP2	Positive supply voltage @ TP2	CW CCW -14.7 $4.889 \pm .147$ $2.270 \pm .$ +16.7 $4.514 \pm .152$ $1.812 \pm .$ -16.7 $4.1394 \pm .156$ $1.355 \pm .$ -14.7 $4.266 \pm .142$ $1.731 \pm .$ +15.7 -15.7 $3.892 \pm .147$ $1.274 \pm .$ -16.7 $3.517 \pm .152$ $.816 \pm .$ +14.7 -15.7 $3.644 \pm .138$ $1.192 \pm .$ +14.7 -15.7 $3.269 \pm .142$ $.735 \pm .$	<pre>+ .348 + .360 + .371 + .337 + .348</pre>	0 4079
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Positive supply voltage @ TP2	Positive supply voltage @ TP2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ .348 + .360 + .371	SO NAM
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Positive supply voltage @ TP2	Positive supply voltage @ TP2	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	- -	V V V V V V V V V V V V V V V V V V V
Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. CW CCW -14.7	Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. CW CCW -14.7	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<u>+</u> .383	8
Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max. CW CCW -14.7 4.889 ± .147 2.270 ± .360 +16.7 -15.7 4.514 ± .152 1.812 ± .371	Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max. CW CCW -14.7 4.889 ± .147 2.270 ± .360 +16.7 -15.7 4.514 ± .152 1.812 ± .371	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1
Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max. CW CCW	Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max. CW CCW	CW CCW	-	1 5
Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max.	Positive supply Negative supply Voltage @ IC2 Voltage @ IC2 voltage @ TP1 voltage @ TP2 Pin 3 VR51, Max. Pin 3 VR51 Max. CW CCW	,	+ .360	
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	VARIATIONS WITH POWER SUPPLY VARIATIONS			
WOBBULATOR UPPER LIMIT ADJUSTMENT				

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FIRST MADE FOR EHC MARK II (SPEED CONTROL UNIT)

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TEST INSTRUCTIONS IV.

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(Refer to the circuit board schematic while board is being tested)

- Connect board as shown in test set-up.
- Check DC voltage at TP1 (+15.7 + 1 VDC).
- Check DC voltage at TP2 (-15.7 \pm 1 VDC)
- Check DC voltage at TP11 (zero volts)
- Close S1 and check SLOW acceleration reference voltage at TP3. Check that this voltage can be varied from $+21^{'}\pm2$ MV (max CW) to zero volts (max CCW) by adjusting VR1. Set this voltage at +11.1 MV. Open

Close S2 and check MEDIUM acceleration reference voltage at TP4. that this voltage can be varied from $+31 \pm 3$ MV (max CW) to zero volts (max CCW) by adjusting VR2. Set this voltage at +16.7 MV. S2.

Close S3 and check FAST acceleration reference voltage at TP5. Check that this voltage can be varied from +59 + 6 MV (max CW) to zero volts (max CCW) by adjusting VR3. Set this voltage at +33.3 MV. Open S3.

Close S4 and check RATED speed reference voltage at TP8 (+9.000 + .090

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Keep S4 closed. Close S5 and check CLOSE VALVES reference voltage at $Gl = TP8 (-7.574 \pm .183)$. Open S5.

G2 = -7.704± .188

- Keep S4 closed. Close S6 and check ROTOR WARMING reference voltage at TP8 (zero volts). Open S6.
- Keep S4 closed. Close S7 and check LOW SPEED HOLD reference voltage at TP8. Check that this voltage can be varied from $+.608 \pm .030$ VDC (max CW) to +.404 + .008 VDC (Max CCW) by adjusting VR5. Set this voltage at +.500V. Open S7. $62 \frac{cW}{ccW} = +.713 \pm .003$ VDC.

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Steam Turbine

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TEST INSTRUCTIONS FOR SPEED CONTROL REFERENCES

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EHC MARK II (SPEED CONTROL UNIT)

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TEST INSTRUCTIONS (continued) IV.

- Set up the X-Y recorder to plot the voltage waveform at TP6 versus time. Close S12 and record the waveform. Open S12 and review the plot. If the time between positive peaks is not 6 minutes, readjust the circuit and repeat the recording.
- Open S12 and check voltage at TP6 (zero volts). Check wobbulator signal 20. at TP7. The wobbulator circuit should continue to generate the triangular waveform even though the output has been grounded.
- Optional Test of Wobbulator Circuit 21.

A strip chart recorder may be used in place of the X-Y recorder when steps 16 to 20 are being performed.

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PRINTS 7

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LOCATION CONT ON SHEET

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