

GENERAL ELECTRIC

P3K-AL-0701-A01

REV NO 0.2
P3K-AL-0701-A01
CONT ON SHEET 2 SH NO 1

TITLE
TEST INSTRUCTIONS - COMB. VLV. LOGIC
1F2-D3 (CB Assembly 18608144)
FIRST MADE FOR EHC MARK IIA

CONT ON SHEET 2 SH NO 1

Schematic # 148D43275A
Group 3, 2 ONLY

REVISION

I. DEFINITIONS

A. CB Powerup

This CB can only be replaced while the unit is either unpowered or tripped; when the unit is powered-up, it assumes the tripped state.

B. Inputs

- High \equiv "1" \equiv 24 ± 1 VDC at specified CB pin.
CB performance should be satisfactory for $23 \leq V_{\text{input}} \leq 25$ VDC.
- Low \equiv "0" \equiv 0 VDC which is obtained by absence or removal of signal at specified pin.

C. Outputs

- High \equiv "1" \equiv 24 ± 1 VDC at CB pin.
- Low \equiv "0" \equiv 0 to 0.2 VDC at CB pin.

SAT 12/2/92

II. PRELIMINARY

- Connect resistive loads to CB pins as in Figure 1.
(470 Ω to simulate industrial relays, 1300 Ω for Hg-wetted).
- Apply 24V return to pin 40. *COM*
- Apply +24 VDC simultaneously to resistor loads and to pin 38.
- Observe:
 - DS5 is ON.
 - $4.75 \leq V_{TP1} \leq 5.25$.

NOTE: A blank entry into the Input/Output State Table assumes the previous entry made in that column.

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NO CHG THIS

NO CHG THIS

273-2
273-12
273-7
273-13
273-21
273-27
PRINTS 1

MAILED 9/3/82
ISSUED SEP 8 1982

APPROVALS

Steam Turbine

DIV OR
DEPT

P3K-AL-0701-A01

GENERAL ELECTRIC

P3K-AL-0701-A01

REV NO. 02

TITLE
TEST INSTRUCTIONS - COMB. VLV. LOGIC
1F2-D3 (CB Assembly 186C8144)

CONT ON SHEET 3

SH NO 2

P3K-AL-0701-A01

CONT ON SHEET 3

SH NO. 2

FIRST MADE FOR EHC MARK IIA

REVISION:

NOV 11 1987

NO CHG THIS CUY

MAR 13 1988

NO CHG THIS CUY

2

U. Schenectady

PRINTS

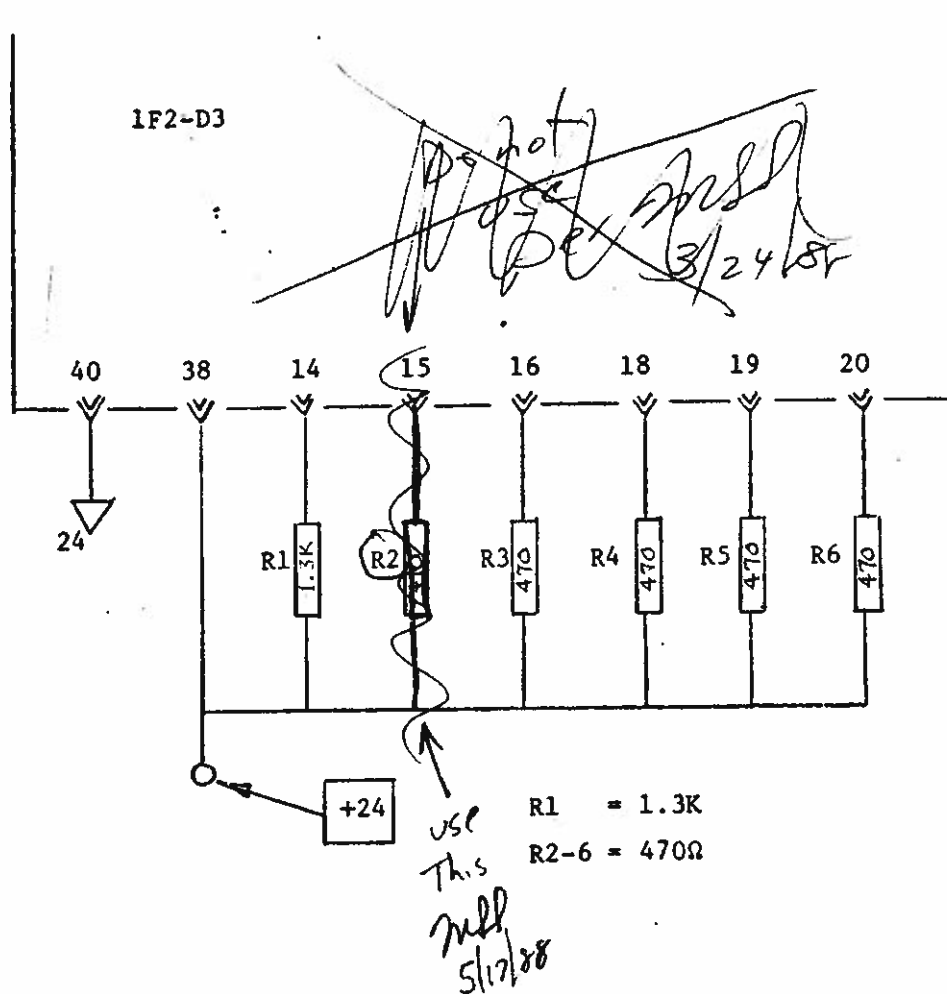


FIGURE 1: Preliminary Test Setup

MADE BY
J. Aulisi 9/3/82

ISSUED SEP 8 1982

APPROVALS

Steam Turbine

Schenectady, N.Y.

DIV OR
DEPT.

LOCATION

P3K-AL-0701-A01

CONT ON SHEET 3

SH NO 2

GENERAL ELECTRIC

PJK-AL-0701-A01

CONT ON SHEET 4

SH NO 3

REV NO **02**
PJK-AL-0701-A01
 CONT ON SHEET 4 SH NO. 3

TITLE
 TEST INSTRUCTIONS - COMB. VLV. LOGIC
 1F2-D3 (CB Assembly 186C8144)
 FIRST MADE FOR EHC MARK IIA

REVISION

2861111982

PAULIS

NO CHG ON

101 MAR 91

2

PRINTS

OUT PUTS

FUNCTION	STATE	TEST	FAST CL.	SEQ.	SV1	IV1FAS	RV1TS/FAS	RV2TS/FAS	IV2FAS	SV2	PH/Ann	REMARKS
A. Sequencing (AMS)	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X - DS lit
1.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y - Output State Independent of Input
2.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	T - (sec.)
3.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	T - Test
4.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	F - Fast Close
B. Sequencing (Nucleaf)	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	W - Warning
1.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	SE - Speed Error
2.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	PB - Test Button
3.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
4.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
5.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
6.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
7.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
C. Warning	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
1.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
2.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
3.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
4.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
D. CRVL Test	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
1.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
2.	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

WMO - Init Cond.
 Push PBI, IV20SHP
 Not Op.

Res.
 Sel Wng On
 Sel Wng Off
 Sel SB, Sel Wng.

Trclp
 Res.
 Sel Spd, IVHS Op.
 IVOSH Op.
 Sel Vlv Cl, IVOSH Cl
 IVHS Cl.
 Trclp

Power up, Trclp
 Res.
 Sel. Spd.
 Sel. Vlv. Cl.

REMARKS
 X - DS lit
 Y - Output State Independent of Input
 T - (sec.)
 T - Test
 F - Fast Close
 W - Warning
 SE - Speed Error
 PB - Test Button

MAD. J. Aulis 9/3/82

ISSUED SEP 8 1982

Steam Turbine
 Schenectady, N.Y.

DIV OR DEPT
 LOCATION

PJK-AL-0701-A01

CONT ON SHEET 4

SH NO 3

P3K-AL-0701-A01

CONT ON SHEET 5

NO 4

REV NO. 032		TITLE		CONT ON SHEET 5		SH NO. 4	
P3K-AL-0701-A01		TEST INSTRUCTIONS - COMB. VLV. LOGIC 1F2-D3 (CB Assembly 186C8144)					
CONT ON SHEET 5		FIRST MADE FOR EHC MARK 1TA					
FUNCTION	STATE	TEST	STATE	REMARKS	APPROVALS	ISSUED	MADE BY
PB1	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
IV1TS	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
RV1OS	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
RV2OS	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
IV2TS	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
PB2	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
IV2OSH	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
IV1OSH	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
PLU/EVA	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
SE	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
IVHS	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
IVOSH	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
SB	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
WMG	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
T/M	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
SV1	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
IV1FAS	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
RV1TS/FAS	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
RV2TS/FAS	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
IV2FAS	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
SV2	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			
PH/Ann	0	0	0	Rel. PB1, Push PB2; IV1OSH Not Op.	WMO - Init. Cond. Push PB2 IV1TS Cl. RV2OS Cl. Rel PB2 RV2OS Op. c < 0.45 RV2OS Op. c > 0.45 * Init. Cond. (22b) See P.6	SEP 8 1982	J. J. J. J.
	0	0	0	Rel. PB2, Push PB1; IV1TS Op. IV1TS Cl. (21) See P.6 RV1TS Cl. Rel. PB1 RV1TS Op. c < 0.35 RV1TS Op. c > 0.35 * See P.6			

GENERAL ELECTRIC

P3K-AL-0701-A01

CONT ON SHEET 6

SH NO. 5

REV NO. 012

P3K-AL-0701-A01

CONT ON SHEET 6

SH NO. 5

TITLE
TEST INSTRUCTIONS - COMB. VLV. LOGIC
1F2-D3 (CB Assembly 186C8144)

FIRST MADE FOR EHC MARK IIA

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FUNCTION		PBI		IVITS		RV1OS		RV2OS		IV2TS		PB2		IV2OSHP		IV1OSHP		PLU/EVA		SE		IVHS		IVOSH		SB		WMG		T/M		SV1		IV1FAS		RV1TS/FAS		RV2TS/FAS		IV2FAS		SV2		FH/Ann		SE		SE		SE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Standby		1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		12.		13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		25.		26.		27.		28.		29.		30.		31.		32.		33.		34.		35.		36.		37.		38.		39.		40.		41.		42.		43.		44.		45.		46.		47.		48.		49.		50.		51.		52.		53.		54.		55.		56.		57.		58.		59.		60.		61.		62.		63.		64.		65.		66.		67.		68.		69.		70.		71.		72.		73.		74.		75.		76.		77.		78.		79.		80.		81.		82.		83.		84.		85.		86.		87.		88.		89.		90.		91.		92.		93.		94.		95.		96.		97.		98.		99.		100.		101.		102.		103.		104.		105.		106.		107.		108.		109.		110.		111.		112.		113.		114.		115.		116.		117.		118.		119.		120.		121.		122.		123.		124.		125.		126.		127.		128.		129.		130.		131.		132.		133.		134.		135.		136.		137.		138.		139.		140.		141.		142.		143.		144.		145.		146.		147.		148.		149.		150.		151.		152.		153.		154.		155.		156.		157.		158.		159.		160.		161.		162.		163.		164.		165.		166.		167.		168.		169.		170.		171.		172.		173.		174.		175.		176.		177.		178.		179.		180.		181.		182.		183.		184.		185.		186.		187.		188.		189.		190.		191.		192.		193.		194.		195.		196.		197.		198.		199.		200.		201.		202.		203.		204.		205.		206.		207.		208.		209.		210.		211.		212.		213.		214.		215.		216.		217.		218.		219.		220.		221.		222.		223.		224.		225.		226.		227.		228.		229.		230.		231.		232.		233.		234.		235.		236.		237.		238.		239.		240.		241.		242.		243.		244.		245.		246.		247.		248.		249.		250.		251.		252.		253.		254.		255.		256.		257.		258.		259.		260.		261.		262.		263.		264.		265.		266.		267.		268.		269.		270.		271.		272.		273.		274.		275.		276.		277.		278.		279.		280.		281.		282.		283.		284.		285.		286.		287.		288.		289.		290.		291.		292.		293.		294.		295.		296.		297.		298.		299.		300.		301.		302.		303.		304.		305.		306.		307.		308.		309.		310.		311.		312.		313.		314.		315.		316.		317.		318.		319.		320.		321.		322.		323.		324.		325.		326.		327.		328.		329.		330.		331.		332.		333.		334.		335.		336.		337.		338.		339.		340.		341.		342.		343.		344.		345.		346.		347.		348.		349.		350.		351.		352.		353.		354.		355.		356.		357.		358.		359.		360.		361.		362.		363.		364.		365.		366.		367.		368.		369.		370.		371.		372.		373.		374.		375.		376.		377.		378.		379.		380.		381.		382.		383.		384.		385.		386.		387.		388.		389.		390.		391.		392.		393.		394.		395.		396.		397.		398.		399.		400.		401.		402.		403.		404.		405.		406.		407.		408.		409.		410.		411.		412.		413.		414.		415.		416.		417.		418.		419.		420.		421.		422.		423.		424.		425.		426.		427.		428.		429.		430.		431.		432.		433.		434.		435.		436.		437.		438.		439.		440.		441.		442.		443.		444.		445.		446.		447.		448.		449.		450.		451.		452.		453.		454.		455.		456.		457.		458.		459.		460.		461.		462.		463.		464.		465.		466.		467.		468.		469.		470.		471.		472.		473.		474.		475.		476.		477.		478.		479.		480.		481.		482.		483.		484.		485.		486.		487.		488.		489.		490.		491.		492.		493.		494.		495.		496.		497.		498.		499.		500.		501.		502.		503.		504.		505.		506.		507.		508.		509.		510.		511.		512.		513.		514.		515.		516.		517.		518.		519.		520.		521.		522.		523.		524.		525.		526.		527.		528.		529.		530.		531.		532.		533.		534.		535.		536.		537.		538.		539.		540.		541.		542.		543.		544.		545.		546.		547.		548.		549.		550.		551.		552.		553.		554.		555.		556.		557.		558.		559.		560.		561.		562.		563.		564.		565.		566.		567.		568.		569.		570.		571.		572.		573.		574.		575.		576.		577.		578.		579.		580.		581.		582.		583.		584.		585.		586.		587.		588.		589.		590.		591.		592.		593.		594.		595.		596.		597.		598.		599.		600.		601.		602.		603.		604.		605.		606.		607.		608.		609.		610.		611.		612.		613.		614.		615.		616.		617.		618.		619.		620.		621.		622.		623.		624.		625.		626.		627.		628.		629.		630.		631.		632.		633.		634.		635.		636.		637.		638.		639.		640.		641.		642.		643.		644.		645.		646.		647.		648.		649.		650.		651.		652.		653.		654.		655.		656.		657.		658.		659.		660.		661.		662.		663.		664.		665.		666.		667.		668.		669.		670.		671.		672.		673.		674.		675.		676.		677.		678.		679.		680.		681.		682.		683.		684.		685.		686.		687.		688.		689.		690.		691.		692.		693.		694.		695.		696.		697.		698.		699.		700.		701.		702.		703.		704.		705.		706.		707.		708.		709.		710.		711.		712.		713.		714.		715.		716.		717.		718.		719.		720.		721.		722.		723.		724.		725.		726.		727.		728.		729.		730.		731.		732.		733.		734.		735.		736.		737.		738.		739.		740.		741.		742.		743.		744.		745.		746.		747.		748.		749.		750.		751.		752.		753.		754.		755.		756.		757.		758.		759.		760.		761.		762.		763.		764.		765.		766.		767.		768.		769.		770.		771.		772.		773.		774.		775.		776.		777.		778.		779.		780.		781.		782.		783.		784.		785.		786.		787.		788.		789.		790.		791.		792.		793.		794.		795.		796.		797.		798.		799.		800.		801.		802.		803.		804.		805.		806.		807.		808.		809.		810.		811.		812.		813.		814.		815.		816.		817.		818.		819.		820.		821.		822.		823.		824.		825.		826.		827.		828.		829.		830.		831.		832.		833.		834.		835.		836.		837.		838.		839.		840.		841.		842.		843.		844.		845.		846.		847.		848.		849.		850.		851.		852.		853.		854.		855.		856.		857.		858.		859.		860.		861.		862.		863.		864.		865.		866.		867.		868.		869.		870.		871.		872.		873.		874.		875.		876.		877.		878.		879.		880.		881.		882.		883.		884.		885.		886.		887.		888.		889.		890.		891.		892.		893.		894.		895.		896.		897.		898.		899.		900.		901.		902.		903.		904.		905.		906.		907.		908.		909.		910.		911.		912.		913.		914.		915.		916.		917.		918.		919.		920.		921.		922.		923.		924.		925.		926.		927.		928.		929.		930.		931.		932.		933.		934.		935.		936.		937.		938.		939.		940.		941.		942.		943.		944.		945.		946.		947.		948.		949.		950.		951.		952.		953.		954.		955.		956.		957.		958.		959.		960.		961.		962.		963.		964.		965.		966.		967.		968.		969.		970.		971.		972.		973.		974.		975.		976.		977.		978.		979.		980.		981.		982.		983.		984.		985.		986.		987.		988.		989.		990.		991.		992.		993.		994.		995.		996.		997.		998.		999.		1000.		1001.		1002.		1003.		1004.		1005.		1006.		1007.		1008.		1009.		1010.		1011.		1012.		1013.		1014.		1015.		1016.		1017.		1018.		1019.		1020.		1021.		1022.		1023.		1024.		1025.		1026.		1027.		1028.		1029.		1030.		1031.		1032.		1033.		1034.		1035.		1036.		1037.		1038.		1039.		1040.		1041.		1042.		1043.		1044.		1045.		1046.		1047.		1048.		1049.		1050.		1051.		1052.		1053.		1054.		1055.		1056.		1057.		1058.		1059.		1060.		1061.		1062.		1063.		1064.		1065.		1066.		1067.		1068.		1069.		1070.		1071.		1072.		1073.		1074.	

REMARKS

X = DS lit

Y = Output State Independent of Input

T = (sec.)

F = Test

W = Fast Close

SB = Warning

SB = Speed Error

PB = Test Button

WMO - Intc. Cond.

Apply SE c < .05

c > .05 (44) See P.6

Rel. SE, c < 0.35 *

0.35 < c < 0.45 *

c > 0.45 *

IVOSH Op.

Sel. Spd. - WMO

Apply PLU/EVA

Rel. PLU, IVOSH CL:

c < 0.35 *

0.35 < c < 0.45 *

c > 0.45 *

IVOSH Op.

Sel. SB

Sel. Wmg.

Sel. Wmg. Off

Sel. SB Off

Sel. Wmg. Off

REVISIO

1 PAULIAN NOV 11 1962

2

PRINTS

Steam Turbine

Div On

P3K-AL-0701-A01

ISSUED

GENERAL ELECTRIC

P3K-AL-0701-A01

CONT ON SHEET 7

SH NO 6

REV NO 052

P3K-AL-0701-A01

TITLE
TEST INSTRUCTIONS - COMB. VLV. LOGIC
1F2-D3 (CB Assembly 186C8144)

CONT ON SHEET 7

SH NO 6

FIRST MADE FOR EHC MARK IIA

II. PRELIMINARY (continued)

REMARKS

(#1) RVTS/RVFAS tested via SE circuits.

* (#2a) First adjust VR53 so that DS3 drops out at $350 < t < 400$ ms after removal of 24V @ pin 9. Observe TP63 (IC3).

* (#2b) Then adjust VR54 so that t_{DS4} drop out = $t_{DS3} + 100$ ms (Nominal range $450 < t < 500$ ms) after removal of 24V from pin 9. Observe TP64.

* (#3) Adjust VR51 (VR52) so that DS1 (DS2) picks up at $35 < t < 45$ ms. after application of 24V to pin 2. Observe TP61 (TP62).

REVISION

111582

① PALLASOV 111582
COP MADE

2 D. Schmitt MAR 19

CHANGES MADE

PRINTS 1

MADE BY
J. Aulisi 9/3/82

APPROVALS

Steam Turbine

DIV OR
DEPT.

P3K-AL-0701-A01

148D4327

YOU CAN LEAVE ALL
WIRING IN + PUT ALL
15 SW'S TO 0.

P3K-AL-0701-A01

MAY HAVE TO ADJ. POTS TO GET PULSE STARTED ON SOME CIRCUITS.

TIMER Adjustments

SHL of 2

- 1 - Apply 12 VOLT Positive Going SQ. wave
To Pin 9 (Set To .5 HZ)
- Trig scope on neg. going edge of input
- Adjust R53 For a .40 sec. delay
between -going input and pos. going output
AT Pin 15
- Adjust R54 For a .50 sec delay
between -going input and pos. going
output AT Pin 19

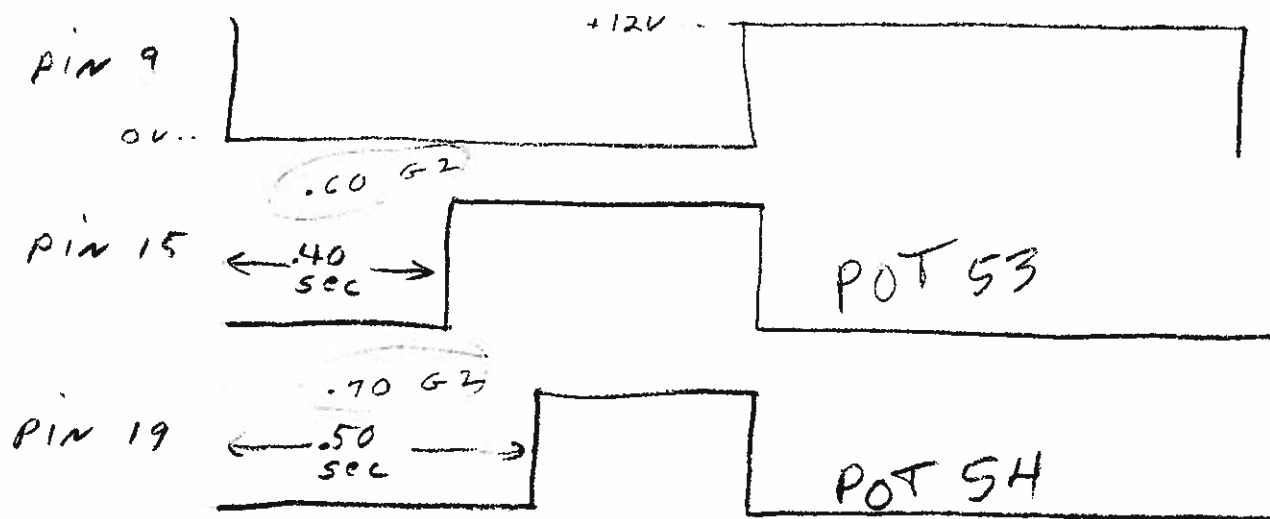


Fig 1

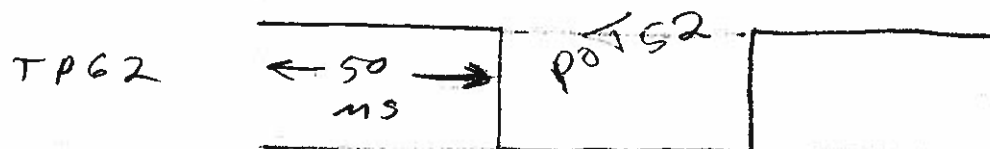
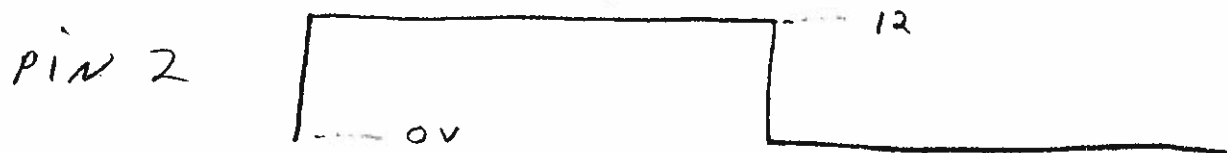
- 2 - Move SQ. wave input to Pin 2 and increase
Freq. to 5 HZ.
- Trig. on pos going input
- Adj R52 For 50 ms delay AT TP 62 (Red)
- Adj R51 For 50 ms delay AT TP 61 (White)

see Fig 2 SH. 2

148D4327

P3K-AL-0701-A01

Sh 2 of 3



TPG1



POT 51

Fig 2