X-Y MONITOR

PARTS CATALOG & SCHEMATICS

PART #902-2132

WELLS GARDNER 19 IN. COLOR X-Y MONITOR MODEL NO. 19K6401

PARTS LIST

DEFLECTION PC BOARD (P322)

1/6212601	-	
Ref.	Part No.	<u>Description</u>
R100	340X3150-934	15 ohm 5% 0.5W
R101	340X3150-934	15 ohm 5% 0.5W
R102	340X2102-934	1K ohm 5% 0.25W
R103	340X2102-934	1K ohm 5% 0.25W
R104	340X2101-934	100 ohm 5% 0.25W
R105	34002101-934	100 ohm 5% 0.25W
R106	43X0477-002	22 ohm 10% 3W
R602	340X2471-934	470 ohm 5% 0.25W
R603	340X2471-934	470 ohm 5% 0.25W
R604	340X3362-934	3.6K ohm 5% 0.5W
R605	340X2910-934	91 ohm 5% 0.25W
R606	340X3822-934	8.2K ohm 5% 0.5W
R607	340X2471-934	470 ohm 5% 0.25W
R608	340X2101-934	100 ohm 5% 0.25W
R609	·	24 ohm 5% 0.25W
R610	43X0401.056	1.5 ohm 5% 10W N.I.
R611	340X2390-934	39 ohm 5% 0.25W
R612		68 ohm 5% 2W
R614	340X3122-234	1.2K ohm 5% 0.5W
R615	340X2100-934	10 ohm 5% 0.25W
R702	340X2471-934	470 ohm 5% 0.25W
R703	 	470 ohm 5% 0.25W
R704	340X3362-934	3.6K ohm 5% 0.5W
R705	340X2910-934	91 ohm 5% 0.25W
R706	340X3472-934	4.7K ohm 5% 0.5W
R707	340X2471-934	470 ohm 5% 0.25W
R708	340X2101-934	100 ohm 5% 0.25W
R709	340X2240-934	24 ohm 5% 0.25W 1.5 ohm 5% 10W N.I.
R710	43X0401-056	1.5 ohm 5% 10W N.I. 39 ohm 5% 0.25W
R711	340X2390-934	68 ohm 5% 2W
R713	340X5680-733	1.3K ohm 5% 0.5W
R714	340X3132-234 340X2100-934	10 ohm 5% 0.25W
R715	340X2100-934 340X2103-934	10K ohm 5% 0.25W
R800	340X2333-934	33k ohm 5% 0.25W
R801 R802	340X5222-743	2.2K ohm 10% 2W
	340X2333-934	33K ohm 5% 0.25W
R803 R804	340X2155-934	1.5M ohm 5% 0.25W
R805	340X2155-934	1.5M ohm 5% 0.25W
R806	340X2221-934	220 ohm 5% 0.25W
R807	340X2221-934	220 ohm 5% 0.25W
R808	340X3271-934	270 ohm 5% 0.5W
R809	340X3271-934	270 ohm 5% 0.5W
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DEFLECTION PC BOARD (P322)

Capacitors

Ref. C100 C101 C102 C103 C104 C105 C106 C107 C108 C600 C602 C603 C604 C701 C702 C703 C704 C800 C801 C802 C803	Part No. 45X0564-001 45X0565-001 45X0565-001 80X0099-193 80X0099-193 343X5632-040 45X0565-001 80X0099-005 47X0786-006 46X0541-003 80X0099-193 80X0099-193 80X0099-193 80X0099-193 80X0099-193 45X0560-019 45X0560-019 45X0560-019	Description 4700mf 63V Electrolytic 4700mf 63V Electrolytic 330mf 50V Electrolytic 330mf 50V Electrolytic 0.1mf 50V Disc Ceramic 0.1mf 50V Disc Ceramic 0.056mf 10% 400V 330mf 50V Electrolytic 330mf 50V Electrolytic 0.001mf 20% Z5F 0.22mf 50V 0.47mf 100V 0.1mf 50V Disc Ceramic 0.001mf 20% Z5F 0.22mf 50V 0.47mf 100V 0.1mf 50V Disc Ceramic 1.0mf 50V Electrolytic 1.0mf 50V Electrolytic 1.0mf 50V Electrolytic 1.0mf 50V Electrolytic
Semi-Con D100 D101 D102 D103 D104 D105 D106 D107 D600 D601 D602 D603 D700 D701 D702 D800 D801 D802 D803 D804 Q100 Q101 Q600 Q601 Q601 Q602	ductors 66X0079-001 66X0079-001 66X0079-001 66X0071-001 66X0071-001 66X0071-001 66X0071-001 66X0070-001 66X0071-001 66X0070-001 66X0070-001 66X0070-001 66X0070-001 66X0070-001 66X0070-001 66X0070-001 86X0125-001 86X0125-001 86X0127-001 86X0127-001	Diode S5A2 Diode S5A2 Diode S5A2 Diode S5A2 Diode 1N4001 Diode 1N4001 Diode 1N4001 Diode 1N4001 Diode 1N914B Diode 1N914B Diode 1N4001 Diode 1N914B Transistor MPSU57 (NPN) Transistor TPS98 (NPN) Transistor TPS98 (NPN) Transistor TPS98 (NPN)

DEFLECTION PC BOARD (P322)

Semi-Conductors

Ref.	Part No.	Description	
0603	86X0126-001	Transistor MPSU57	(PNP)
0604	86X0125-001	Transistor MPSU07	(NPN)
0700	86X0127-001	Transistor TPS98	(NPN)
0701	86X0127-001	Transistor TPS98	(NPN)
0702	86X0127-001	Transistor TPS98	(NPN)
0703	86X0126-001	Transistor MPSU57	(PNP)
0704	86X0125-001	Transistor MPSU07	(NPN)
0800	86X0072-001	Transistor	(PNP)
Q801	86X0127-001	Transistor TPS98	(NPN)
0802	86X0127-001	Transistor TPS98	(NPN)
ŽD100	66X0040-027	. Zener Diode, 46V,	5%, 1.0W
ZD101	66X0040- 0 27	Zener Diode ,46V,	5%, 1.0W

<u>Miscellaneous</u>

NECK PC BOARD (P341)

R500 R501 R502 R503 R504 R505 R506	340X2102-934 340X2102-934 340X2102-934 340X2102-934 340X2102-934 340X2102-934 340X2103-934	1K ohm 5% 0.25W
R507 R508	40X0641-001 40X0641-001	500 ohm, Green Control 500 ohm, Green Control
R509	40X0641-001 40X0641-001 340X2432-934	500 ohm, Green Control 4.3K ohm 5% 0.25W
R510 R511	340X2431-934	430 ohm 5% 0.25W 4.3K ohm 5% 0.25W
R512 R513	340X2432-934 340X2431-934	430 ohm 5% 0.25W
R514 R515	340X2432-934 340X2431-934	4.3K ohm 5% 0.25W 430 ohm 5% 0.25W

NECK PC BOARD (P341)

Ref.	Part No.	Description
R516 R517 R518 R519 R520 R521 R522 R523 R524 R525 R527 R528 R527 R528 R531 R531 R532 R5336 R537	340X3182-944 340X2273-934 40X0590-014 340X3392-944 340X3104-244	15K ohm, Black Control 15K ohm, Black Control 15K ohm, Black Control 12K ohm 5% 2W metal oxide 2.7 ohm 10% 0.5W comp. 2.7 ohm 10% 0.5W comp. 2.7 ohm 10% 0.5W comp. 2.8 ohm 5% 2W metal oxide 33 ohm 5% 2W metal oxide 33 ohm 5% 0.5W 0.39 ohm 5% 1W metal oxide 12K ohm 5% 0.25W 1.8K ohm 10% 0.5W comp. 27K ohm 5% 0.25W 25K ohm Trim Pot. 3.9K ohm 10% 0.5W comp.
Capacitor	<u>cs</u>	
C500 C501 C502 C503 C504 C505	80X0099-006 80X0099-006 80X0099-006 45X0569-004 80X0099-118 80X0099-061	470mf 10% Z5F ceramic 470mf 10% Z5F ceramic 470mf 10% Z5F ceramic 2.2mf 350V Electrolytic 100pf 2KV 10% 0.01mf 1KV 20%
Semi-Cond	ductors	
D500 D501 Q500 Q501 Q502 Q503 ZD500 ZD501	66X0069-001 86X0115-001 86X0115-001 86X0115-001 86X0113-001 66X0040-011 66X0040-026	Diode 1N914B Diode 250V HS Transistor D40P3 (NPN) Transistor D40P3 (NPN) Transistor D40P3 (NPN) Transistor 2N3904 (NPN) Zener Diode 4.3V,5%,0.5W Zener Diode 18V, 5%, 1.0W
P500	6A0395-001 3A0636-001	Header, 8 Ckt, 90° PIX Socket

HIGH VOLTAGE PCB ASSEMBLY (P324)

Resistors		
Ref.	Part No.	Description
R901	43X0477-001	3.9 ohm 10% 3.0W
R902	340X3279-944	0.27 ohm 10% 0.5W
R903	340X3039-934	0.27 ohm 10% 0.5W 3.9 ohm 5% 0.5W 470 ohm 5% 0.5W
R904	340X3471-934	470 ohm 5% 0.5W
R905	340X3561-934 340X3682-934	560 ohm 5% 0.5W
R906	340X3682-934	6.8K ohm 5% 0.5W
R908	34012102-934	1K ohm 5% 0.25W
R909	34072104-934	100K ohm 5% 0.25W
R910	34012104-334	12K ohm 5% 0.25W
R911	34012682-934	6.8K ohm 5% 0.25W
R912	34073150-834	15 ohm 5% 0.5W
R913	4310401-057	560 ohm 10% 5W
R914	34073151-934	150 ohm 5% 0.5W
R915	34072102-934	1K ohm 5% 0.25W
R916	34072332-934	3.3K ohm 5% 0.25W
R917	34073033-934	3.3 ohm 5% 0.5W
R918	4010590-014	25K ohm Trim Pot.
R919	340X2241-934	240 ohm 5% 0.25W
R920	340X3152-834	1.5K ohm 5% 0.5W
R921	340X2222-934	2.2K ohm 5% 0.25W
R922	340X2113-934	11K ohm 5% 0.25W
R923	340X2332-934	3.3K ohm 5% 0.25W
R924	340X2561-934	560 ohm 5% 0.25W
R925	340X2101-934	100 ohm 5% 0.25W
R926	340X5022-333	2.2 ohm 5% 2W
R927	340X3151-934	150 ohm 5% 0.5W
R928	340X4563-933	560 ohm 5% 0.5W 6.8K ohm 5% 0.25W 1K ohm 5% 0.25W 100K ohm 5% 0.25W 12K ohm 5% 0.25W 6.8K ohm 5% 0.25W 15 ohm 5% 0.5W 560 ohm 10% 5W 150 ohm 5% 0.25W 3.3K ohm 5% 0.25W 3.3K ohm 5% 0.25W 3.3 ohm 5% 0.25W 2.5K ohm Trim Pot. 240 ohm 5% 0.25W 1.5K ohm 5% 0.25W 1.5K ohm 5% 0.25W 1.5K ohm 5% 0.25W 3.3K ohm 5% 0.25W 1.5K ohm 5% 0.25W 2.2 ohm 5% 0.25W 3.3K ohm 5% 0.25W
Capacito	 -	
C901	45X0569-003	100mf 100V Electrolytic
C903	80X0099-134	0.015mf 100V ceramic
C904	349X1044-109	0.1mf 100V 20% mylar
C905	45X0568-001	33mf 63V Electrolytic
C909	45X0524-021	22mf 50V Electrolytic
C910	45X0524-036	10mf 300V Electrolytic
C911	46X0536-015	0.01mf polypropelene
C912	349X1041-100	0.1mf 100V 5% mylar
C913	80X0099-005	0.001mf 20% Z5F
C914	45X0569-001	47mf 50V Electrolytic
C915	80X0099-005	0.001mf 20% Z5F
C916	46X0536-016	0.035mf 400V 5% polypropelene
C920	80X0099-028	68pf 10% NPO
Semi-Con	ductors	
D901	66X0083-001	Diode HS
D902	66X0068-002	Diode, Silicon
IC901	86X0134-001	I.C. NE555P
Q901	86X0071-001	Transistor MPSAO6 (NPN)

HIGH VOLTAGE PCB ASSEMBLY (P324)

Semi-Conductors

<u>Ref.</u>	Part No.	Description	
Q902 Q903 Q904 Q905 Q906	86X0071-001 86X0120-001 86X0071-001 86X0116-001	Transistor MPSA06 Transistor Transistor MPSA06 Transistor 2N6557, Transistor BU207	(NPN)

Miscellaneous

3A0614-001	Power Transistor Socket
3A0629-005	Housing, 5 Ckt, Amp #22
3A0627-003	Housing, Amp #350342-3

<u>Transformer</u>

T901	52X0126-001	Transformer,	Horiz.	Driver
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INTERFACE PC BOARD (P325)

1(03)3001	<u>-</u>	
R200	340X2331-934	330 ohm 5% 0.25W
R201	340X2102-934	1K ohm 5% 0.25W
R203	340X2132-934	1.3K ohm 5% 0.25W
R204	340X2472-934	4.7K ohm 5% 0.25W
R205	340X2472-93 4	4.7K ohm 5% 0.25W
R206	340X2332-934	3.3K ohm 5% 0.25W
R207	40X0639-007	5K ohm, Control
R208	340X2470-934	47 ohm 5% 0.25W
R209	40X0639-006	2K ohm, Control
R210	340X2332-934	3.3K ohm 5% 0.25W
R211	340X2473-934	47K ohm 5% 0.25W
R212	40X0639-008	10K ohm, Control
R213	340X2392-934	3.9K ohm 5% 0.25W
R214	340X5102-733	1K ohm 5% 2W
R215	340X2562-934	5.6K ohm 5% 2W
R216	340X2273-934	27K ohm 5% 2W
R217	340X2103-934	10K ohm 5% 2W
R218	340X2472-934	4.7K ohm 5% 2W
R219	340X2472-934	4.7K ohm 5% 2W
R220	340X2332-934	3.3K ohm 5% 2W
R221	40X0639-007	5K ohm, Control
R222	340X2470-934	47K ohm 5% 0.25W
R223	40X0639-006	2K ohm, Control
R224	340X2332-934	3.3K ohm 5% 0.25W
R225	340X2473-934	47K ohm 5% 0.25W
R226	40X0639-008	10K ohm, Control
R227	340X2432-934	4.3K ohm 5% 0.25W
R228	340X5102-733	1K ohm 5% 2W
R229	340X2562-934	5.6K ohm 5% 0.25W

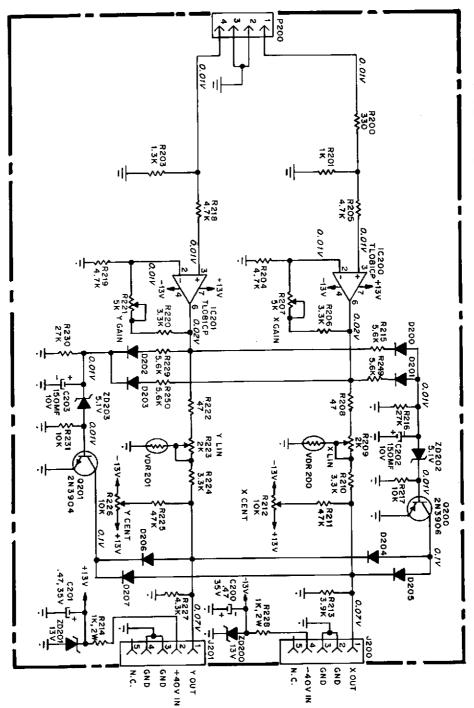
INTERFACE PC BOARD (P325)

Ref.	Part No.	Description
R230 R231 R249 R250	340X2273-934 340X2103-934 340X2562-934 340X2562-934	27K ohm 5% 0.25W 10K ohm 5% 0.25W 5.6K ohm 5% 0.25W 5.6K ohm 5% 0.25W
Capacito	<u>rs</u>	
C200 C201 C202 C203	45X0525-003 45X0525-003 45X0524-052 45X0524-052	0.47mf 35V Electrolytic 0.47mf 35V Electrolytic 150mf 10V Electrolytic 150mf 10V Electrolytic
Semi-Cond	ductors	
D200 D201 D202 D203 D204 D205 D206 D207 IC200 IC201 Q201 VDR200 VDR201 ZD200 ZD201 ZD200 ZD201 ZD202 ZD203	66X0070-001 66X0070-001 66X0070-001 66X0070-001 66X0070-001 66X0070-001 66X0070-001 86X0138-001 86X0138-001 86X0114-001 86X0113-001 43X0470-001 43X0470-001 66X0040-017 66X0040-017 66X0040-028 66X0040-028	Diode 1N914B I.C. TLO81CP I.C. TLO81CP Transistor 2N3906 (PNP) Transistor 2N3904 (NPN) VDR VDR Diode, Zener, 13V, 5%, 1.0W Diode, Zener, 5.1V 5%, 0.5W Diode, Zener, 5.1V 5%, 0.5W
<u>Miscella</u>	neous	
J200 J201 P200	3A0618-005 3A0618-005 6A0394-004	PCB Connector, 5 Ckt PCB Connector, 5 Ckt Header, 4 Ckt
	HIGH Y	VOLTAGE UNIT ASSEMBLY
Т900	53X0487-002 86X0128-001 86X0118-001 3A0624-001	H.V. Transformer Transistor BU409 Transistor BU207 Transistor Socket

FINAL ASSEMBLY PARTS

<u>Ref.</u>	Part No.	Description
Q102 Q103	86X0137-001 86X0135-001 88X0145-506 38A5873-000 38A5769-000 2A0684-001 9A2819-001 9A2753-005 3A0624-001	Transistor 2N3716X Transistor 2N3792X PIX Tube, 19VNJP22 Degaussing Coil Ass'y HV Unit Lateral/ purity Ass'y Yoke, Deflection Degaussing Coil Transistor Socket
	пүн у	HEAT SINK ASSEMBLY
Q605 Q606 Q607 Q608	86X0123-001 86X0135-001 86X0123-001 86X0135-001 340X4399-331 3A0634-001	Transistor 2N3716 Transistor 2N3792X Transistor 2N3716 Transistor 2N3792X Resistor, 0.39 ohm 5% 1W Transistor Socket
	" X "	HEAT SINK ASSEMBLY
Q705 Q706 Q707 Q708	86X0123-001 86X0124-001 86X0123-001 86X0124-001 340X4399-331 3A0634-001	Transistor 2N3716 Transistor 2N3792 Transistor 2N3716 Transistor 2N3792 Resistor, 0.39 ohm 5% 1W Transistor Socket

INTERFACE PCB (PLUG-IN) FOR MODEL 19K6401



GENERAL NOTES:

1. FOR DETAIL OF GENERAL NOTES SEE NOTES NO. 1, 2 AND 4 ON MAIN SCHEMATIC (19K6400 SERIES).

WELLS-GARDNER ELECTRONICS CORP.

19K6401-5841

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