

MARCH 1975

TUBE TEST DATA

**Jackson Model
648 Series**

FOR USE WITH
ROLL CHART 648-34

COLETRONICS SERVICE INC.

1744 ROCKAWAY AVENUE • HEWLETT, L.I., NEW YORK 11557

(AUTHORIZED MERCURY/JACKSON TUBE DATA SERVICE)

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
1BK2 "	1.4	12	9	20WY
	Good tube reads above 40.			
1BX2	1.4	12	9	38VX
1BY2 "	1.4	-	3	74XZ
	Connect top cap to octal socket pin 8.			
1D13	1.4	B124	6	100X
1DG3 "	1.4	34	9	50XZ
	Good tube reads above 30.			
1DK1 " "	1.4	12	9	30VX
	Insert leads into pins 4&5 of 9 pin min. socket-Cap goes to top lead.			
1H35 "	1.4	14	AB2567 A23	39XZ 33YZ
1RK23	1.4	12	9	38VX
1RK41 "	1.4	12	9	20WY
	Good tube reads above 40.			
2BU2 " "	2.5	-	9	25XZ
	Nor-S Switch in S position. Good tube reads above 40.			
2DL4	2.5	A125	AC47	42V
3BT2 " "	3.0	-	9	25XZ
	Nor-S Switch in S position. Good tube reads above 40.			
3BW2 " "	3.0	-	9	25XZ
	Nor-S Switch in S position. Good tube reads above 40.			
3CV3 "	3.0	12	9	32XZ
	Good tube reads above 40.			
3DC3	3.0	12	9	23XZ
3DF3 "	3.0	34	9	21XZ
	Good tube reads above 30.			

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
3DH3	3.0	34	9	34XZ
3DJ3 "	3.0	12	9	25XZ
	Good tube reads above 20.			
3DR3 "	3.0	34	9	21XZ
	Good tube reads above 30.			
3DS3 "	3.0	34	9	21XZ
	Good tube reads above 30.			
3MR24	3.0	AC1234	567*	13WY
3MV7	3.0	AC1234	567*	14WY
4GS7 "	4.2	A126 123	AC389* AC45	47XZ 17YZ
4JW8 "	4.2	A129 A127	AB358 A46	28YZ 50YZ
4LU6	4.2	AC1234	567*	12WY
4MK8 "	4.2	A1248 A1246	359 C579*	64XZ 64XZ
4RHH15 "	4.2	A1237	A45 A89	45V 45V
5AQ4 "	5.0	13 -	5 8	15W 15W
5JW8 "	5.0	A129 A127	AB358 A46	28YZ 50YZ
5MF8 " "	5.0	AC6 C9	A348 A17	33Z 17YZ
	Nor-S Switch in S position.			
5MQ8 "	5.0	A129 A127	AB358 A46	42V 44V
5P29	6.3	1237	AB569	25W

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
5RDDH1	5.0	A126	AC79	51XZ
"		125	4	60X
"		123	8	60X
5RHP1	4.2	A125	C389*	75WZ
"		127	A46	18V
5RHR1	5.0	A125	C389*	13WY
6AK9	6.3	AC5	AB689	42VW
"		AC5	AC79	32VX
"	Nor-S Switch in S position.			
"		AC5	A12	30VX
6AK10	6.3	C3	AC67	21WZ
"		C2	A19	21WZ
"	Nor-S Switch in S position.			
6AL9	6.3	C6	179	31V
"	Nor-S Switch in S position.			
"		C4	A59	16XZ
6B32	6.3	235	7	60X
"		C123	4	60X
6BB14	6.3	123	B489	12WZ
"	Must use magnoval socket or 9 MNA			
"	adapter. Nor-S Switch in S position.			
6BR7	6.3	A123	A45	22XZ
"		127	8	60X
"		127	9	60X
6BW3	6.3	C5	7	14W
6C16	6.3	A125	C389	75WZ
"		127	A46	25V
6C18	6.3	A129	358	52YZ
"	6.3	A127	A46	24YZ
6CA11	6.3	A236	AB789	21XZ
"	Nor-S Switch in S position.			
"		9	A34	17XZ
"		5	A12	17XZ

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
6CC31 "	6.3	234	AC57 A16	30V 30V
6CC42 "	6.3	B456 467	A13 A89	40Z 40Z
6CC43 "	6.3	123 127	A45 A89	18YZ 18YZ
6D1	6.3	A234	A56	62XZ
6DK3 "	6.3	129	5	13W
	Nor-S Switch in S position.			
6DL3 "	6.3	129	59	13W
	Nor-S Switch in S position.			
6DL8 " "	6.3	125 127 127	C389 4 6	35Y 80X 80X
6DN3	6.3	126	5	13W
6DQ3	6.3	C5	3	13W
6DT3	6.3	C5	3	13W
6DU3	6.3	C5	3	13W
6E8 "	6.3 6.3	12368 12345	459 AC68	18WX 38XZ
6EN4 "	6.3	127	C69	80XZ
	Good tube reads above 10.			
6F19	6.3	A1256	B379*	25WY
6F22	6.3	A1237	AB468	28XZ
6F26	6.3	A1256	B379*	25WY
6F29	6.3	1256	B379*	17WX
6F30	6.3	A1256	B379	30XZ

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
6F33	6.3	A2347	AC156	55VY
6F35	6.3	A234	AC156	20XZ
6GB9	6.3	1237	AB569	15W
6HV5	6.3	C3	AC15	11WX
6HZ5	6.3	C3	AC15	18XZ
6JA5	6.3	AC3	B124	18XZ
6JB5	6.3	AC3	B124	31W
6JC5	6.3	AC3	B124	28W
6JD5	6.3	C3	AC15	18XZ
6JG5	6.3	A128	679	23WZ
6JH5	6.3	C3	C125	21XZ
6JK5	6.3	C3	C125	21XZ
6KH8	6.3	129	C45	17XZ
"	6.3	129	A356	23XZ
"	6.3	129	AB678	17XZ
6LG6	6.3	AB13	C249	15W
"	Connect top cap to octal socket pin 3.			
6LU6	6.3	AC1234	567*	12WY
6LV6	6.3	C1	C249	20W
"	Connect top cap to octal socket pin 3.			
6LW6	6.3	C123	AB469	20W
6LX6	6.3	AB13	C249	14W
"	Connect top cap to octal socket pin 3.			
6LZ6	6.3	123	45	27VW
6MA6	6.3	C234	589	16XZ
"	Good tube reads above 45.			

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
6MB6 "	6.3	AB13	C249	14W
	Connect top cap to octal socket pin 3.			
6MC6 "	6.3	1237	AB459	15W
	Nor-S Switch in S position.			
6ME6	6.3	1237	AB459	14W
6MH1	6.3	A237	A45	65Z
6MH6 "	6.3	C1	C249	20W
	Connect top cap to octal socket pin 3.			
6MJ6 "	6.3	1237	AB459	14W
	Nor-S Switch in S position.			
6ML4	6.3	A235	A46	28V
6ML8 " "	6.3	129 129 129	A38 A57 A46	17XZ 17XZ 17XZ
6MP17	6.3	237	AC156	47W
6MP20	6.3	237	AC156	33W
6MU8 "	6.3	A129 A127	AB358 A46	29V 54V
6MV8 "	6.3	A128 A124	679 A35	26XZ 73V
6MX8 "	6.3	A123 A124	AC589 AC67	20V 42XZ
6MY8 " "	6.3	AC6 AC9	A348 A17	30VW 22XZ
	Nor-S Switch in S position.			
6PL12 "	6.3	125 A127	AC389 AC46	33Z 45XZ
6Q8 "	6.3	12368 12345	459 AC68	18WX 38XZ

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
6RA6	6.3	A124	AC56	20YZ
6RA9	6.3	124	AC56	27W
6RB11	6.3	129	B346	20W
6SL7	6.3	A234	A17	35VX
6S2	6.3	12	9	38VX
6X5	6.3	123	7	12V
7D10	6.3	1236	B57	30V
8AC10	8.4	C3	AC67	21YZ
"		C2	A19	21YZ
"	Nor-S Switch in S position.	AC4	AC59	38VZ
8AL9	8.4	C6	179	31V
"	Nor-S Switch in S position.	C4	A59	16XZ
8CB11	8.4	A2357	C689*	45XZ
"	Nor-S Switch in S position.	AB39	124*	38XZ
8D8	6.3	A1237	AB468	28XZ
8K11	8.4	C3	AC67	40WZ
"		AC4	AC59	35WX
"		AC2	A19	35WX
"	Nor-S Switch in S position.			
8LS6	8.4	1234	B579	34W
8MD8	8.4	129	A38	17XZ
"		129	A57	17XZ
"		129	A46	17XZ
8MU8	8.4	A129	AB358	29V
"		A127	A46	54V
9AH9	9.4	AC5	B489	23V
"	Nor-S Switch in S position.	C3	AC12	16XZ

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
9AK10	9.4	C3	AC67	21WZ
"		C2	A19	21WZ
"	Nor-S Switch in S position.			
9AM10	9.4	C3	AC67	19YZ
"		C2	A19	19YZ
"	Nor-S Switch in S position.			
"		C4	A59	19YZ
9ML8	9.4	129	A38	17XZ
"		129	A57	17XZ
"		129	A46	17XZ
9MN8	9.4	AC2	A48	13WX
"			A37	13WX
"			A19	13WX
"	Nor-S Switch in S position.			
9RA6	9.4	A124	AC56	20WZ
10AF11	9.4	AC9	A167	41V
"	Nor-S Switch in S position.			
"		AC9	AC48	67V
"		C5	AC23	40V
10FD7	10.5	A127	A89	27WX
"		126	A45	31VW
10JA5	10.5	AC3	B124	18XZ
10L14	25.0	127	A89	18YZ
"		123	A45	18YZ
10LD6	10.5	A1234	B579	43Z
10LM8	10.5	A129	AB358	52V
"		127	A46	18YZ
10LY8	10.5	A129	678*	40V
"		A124	A35	42XZ
10P18	50.0	123	B569	12WZ

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
10T10	10.5	C6	AB789	28W
"	Nor-S Switch in S position.			
"		AB29	B145*	95XZ
10Z10	10.5	C2	C169	28W
"	Nor-S Switch in S position.			
"		C8	3459	75YZ
11CA11	10.5	A236	AB789	21XZ
"	Nor-S Switch in S position.			
"		9	A34	17XZ
"		5	A12	17XZ
11CF11	10.5	C8	AC67	16XZ
"		C5	A19	16XZ
"	Nor-S Switch in S position.			
"		C4	239	22XZ
11CH11	10.5	C8	179	63Z
"	Nor-S Switch in S position.			
"		C4	A59	17XZ
"		C3	AC26	16XZ
11DS5	10.5	A237	AC156	21WZ
11LY6	10.5	1234	B579	34W
11MS8	10.5	127	AC689	18W
"		123	A45	33WZ
12AC10	12.6	C3	AC67	21YZ
"		C2	A19	21YZ
"	Nor-S Switch in S position.			
"		AC4	AC59	38YZ
12AF11	12.6	AC9	A167	41V
"	Nor-S Switch in S position.			
"		AC9	AC48	67V
"		C5	AC23	40V
12CT3	12.6	A126	5	16YZ
12DZ7	12.6	123	AB568	35W
"			457	35W
12E13	6.3	123	456	20W

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
12GV5 "	12.6	AC3	126	30VW
	Connect top cap to octal socket pin 2.			
12HB25	12.6	126	AC48	16YZ
12HU8 "	12.6	A129	C678 345	27WZ 27WZ
12JF5	12.6	C3	129	15W
12JM6 "	12.6	B13	C259	14W
	Connect top cap to octal socket pin 4.			
12MX8 "	12.6	A123 A124	AC589 AC67	20V 42XZ
12RLL3 "	12.6	123 127	A45 A89	24V 24V
13JZ8 " "	12.6	AC6 C9	A348 A17	28Z 25YZ
	Nor-S Switch in S position.			
15MF8 " "	15.0	AC6 C9	A348 A17	33Z 17YZ
	Nor-S Switch in S position.			
15MX8 "	15.0	A123 A124	AC589 AC67	20V 42XZ
16AK9 " " "	15	AC5 AC5 AC5	AB689 AC79 A12	42VW 32VX 30VX
	Nor-S Switch in S position.			
16BQ11 " "	15.0	2359 AB34	C678 129	17YZ 40V
	Nor-S Switch in S position.			
16BX11 " " "	15.0	AC1 AC6 AC3	AB279 A58 A49	26WY 34YZ 28YZ
	Nor-S Switch in S position.			
16CB28	15.0	13	C259	30Z

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
16HB5	15.0	AC3	AB125	22Z
16KH8	17.0	129	C45	17XZ
"	17.0	129	A356	23XZ
"	17.0	129	AB678	17XZ
16LD6	15.0	A1234	B579	43Z
16LU8	15.0	AC6	A348	30VW
"		AC9	A17	22XZ
"		Nor-S Switch in S position.		
16MY8	15.0	AC6	A348	30VW
"		AC9	A17	22XZ
"		Nor-S Switch in S position.		
17A8	17.0	A129	AB358	54V
"		127	A46	20YZ
17JF6	17.0	A1237	AB459	27VW
"		Nor-S Switch in S position.		
17JQ6	17.0	A126	349	25YZ
"			8	44Y
17RHH2	17.0	123	A45	15XZ
"		127	A89	15XZ
17RK19	17.0	129	6	13W
17Y9	17.0	A126	B789	20WZ
"		A124	B359	40V
"		Nor-S Switch in S position.		
18AJ10	19.0	AC6	AB789	31V
"		Nor-S Switch in S position.		
"		AB19	B245	30XZ
19A3	19.0	234	5	13W
19DC8	19.0	A125	B348*	73WZ
"		123	7	80X
"		123	9	80X
19DE3	19.0	C29	3	14W

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
19DK3 "	19	129	5	13W
	Nor-S Switch in S position.			
19DQ3	19.0	C5	3	13W
19FL8 " "	19.0	A125 123 123	B348* 7 9	73WZ 80X 80X
19FX5	19.0	AC123	A456	33Z
19U3	19.0	123	6	25VW
19W3	19.0	123	6	25VW
20D4 "	6.3	A1239 123	AB458 AC67	20XZ 18XZ
20LF6 "	19.0	C1	C249	20W
	Connect top cap to octal socket pin 3.			
21JS6 "	19.0	AB13	C249	15W
	Connect top cap to octal socket pin 3.			
21LG6 "	19.0	AB13	C249	15W
	Connect top cap to octal socket pin 3.			
21MY8 " "	19.0	AC6 AC9	A348 A17	30VW 22XZ
	Nor-S Switch in S position.			
22KV6	25.0	A1238	AB456	19V
23MB6 "	25.0	AB13	C249	14W
	Connect top cap to octal socket pin 3.			
24AX4	25.0	234	6	13W
24LZ6	25.0	123	45	27VW
25BB14 " "	25.0	123	B489	12WZ
	Nor-S Switch in S position. Must use magnoval socket or 9 MNA adapter.			
25CT3	25.0	A126	5	16YZ

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
25DK3 "	25	129	5	13W
	Nor-S Switch in S position.			
25DL3 "	25.0	129	59	13W
	Nor-S Switch in S position.			
25GB6	25.0	1237	AB569	18W
25HX5 " "	25.0	125	468	18YZ
	Must use magnoval socket or 9 MNA adapter.			
25JQ6 "	25.0	A126	349 8	25YZ 44Y
25JZ8 " "	25.0 25.0	AC6 C9	A348 A17	25Z 24YZ
	Nor-S Switch in S position.			
25MP20	25.0	237	AC156	33W
25RK19	25	129	6	13W
26HU5	25.0	C123	47	16W
26LW6	25	C123	AB469	20W
26LX6 "	25.0	AB13	C249	14W
	Connect top cap to octal socket pin 3.			
27LF6 "	25.0	C1	C249	20W
	Connect top cap to octal socket pin 3.			
29LE6	25.0	126	AB349	19YZ
30C18 "	7.5	A129 A127	358 A46	52YZ 24YZ
30JZ6 "	35.0	C1	C249	30Z
	Connect top cap to octal socket pin 3.			
30MB6 "	35.0	AB13	C249	14W
	Connect top cap to octal socket pin 3.			
30MP23	35.0	C123	467	38VW

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
30MP27	35.0	C123	467	32VW
30LW6	35	C123	AB469	20W
30PL12	15.0	125	AC389	33Z
"		A127	AC46	45XZ
31AL10	25.0	5	A12	47Y
"		5	A389	19XZ
"		7	A69	41W
31LQ6	35.0	1237	AB459	14W
"		Nor-S Switch in S position.		
31LR8	35.0	A123	AC589	35VW
"		A124	AC67	23XZ
31LZ6	25.0	123	45	27VW
32A8	35.0	125	AC389	33Z
"		A127	AC46	45XZ
32HQ7	35.0	AC8	AB469	16W
"		Connect jumper from 1 to 10 of 9-10		
"		pin min. socket.		
"		C3	1	14W
33HE7	35.0	AC8	AB469	14W
"		Connect jumper between pins 1 & 10 of		
"		9-10 pin min. socket.		
"		C3	1	13W
33JR6	35.0	A1238	AB456	29VW
34DK3	35.0	129	5	13W
"		Nor-S Switch in S position.		
36KD6	35.0	C1	C249	18W
"		Connect top cap to octal socket pin 3.		
36MC6	35.0	1237	AB459	15W
"		Nor-S Switch in S position.		
40KG6	35.0	A1256	AB349	14W
"		Must use magnoval socket or 9 MNA		
"		adapter. Nor-S Switch in S position.		

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
42EC4	35.0	129	5	13W
"	Must use magnoval socket or 9 MNA adapter. Nor-S Switch in S position.			
50GY7	50.0	AC8	AB469	29Z
"	Connect jumper between pins 1 & 10 of 9-10 pin min. socket.			
"		C3	1	13W
TJ880	6.3	A1234	B579	15WZ
5845	5.0	23	5	83VX
"	5.0	23	1	83VX
6293	6.3	125	AB469	10WX
7308	6.3	A1237	A45	31V
"			A89	31V
7683	6.3	1259	A347	30XZ
7751	6.3	123	456	70X
8136	6.3	AC1234	567*	18WY
8416	12.6	A123	A45	10WX
"		A127	A89	10WX
8425	6.3	2347	AC156	40WZ
8552	12.6	125	AB469	17W
8908	6.3	235	AB469	17WZ
8950	12.6	C1	AB289	14W
<u>FOREIGN</u>				
E188CC	6.3	A1237	A45	31V
"			A89	31V
E235L	6.3	123	456	70X
E810F	6.3	A124	B589	52V

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
EAF801	6.3	123	AB458 8	42YZ 50Y
ECC808	6.3	125 127	A34 AC69	34YZ 34YZ
ECF200	6.3	A1259	AC467*	23XZ
"	Nor-S Switch in S position.			
"	6.3	A123	A89	26XZ
ECF201	6.3	A1259	AC467*	23XZ
"	Nor-S Switch in S position.			
"	6.3	123	A89	27V
ECH21	6.3	129 129	C3468 A57	29XZ 18YZ
ECH200	6.3	A1234	AC569	88X
"	Nor-S Switch in S position.			
"	6.3	A128	AC79	36V
ECLL800	6.3	129	C45	17XZ
"	6.3	129	A356	23XZ
"	6.3	129	AB678	17XZ
EF37A	6.3	1267	459	11WX
EFL200	6.3	A126	B789	20WZ
"		A124	B359	40V
"	Nor-S Switch in S position.			
LCF200	5.6	A1259	AC467*	23XZ
"	Nor-S Switch in S position.			
"	5.6	A123	A89	26XZ
LCF201	5.6	A1259	AC467*	23XZ
"	Nor-S Switch in S position.			
"	5.6	123	A89	27V
LCH200	5.0	A1234	AC569	88X
"	Nor-S Switch in S position.			
"	5.0	A128	AC79	36V

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
LFL200	10.5	A126	B789	20WZ
"	10.5	A124	B359	40V
"	Nor-S Switch in S position.			
LL802	10.5	A1234	B579	43Z
PCF200	8.4	A1259	AC467*	23XZ
"	Nor-S Switch in S position.			
"	8.4	A123	A89	26XZ
PCF201	8.4	A1259	AC467*	23XZ
"	Nor-S Switch in S position.			
"	8.4	123	A89	27V
PCH200	9.4	A1234	AC569	88X
"	Nor-S Switch in S position.			
"	9.4	A128	AC79	36V
PFL200	17.0	A126	B789	20WZ
"	17.0	A124	B359	40V
"	Nor-S Switch in S position.			
UBF89	19.0	A125	B348*	73WZ
"		123	7	80X
"		123	9	80X
UF86	12.6	A1237	AB468	28XZ
YL1371	12.6	125	AB469	10WX

ROLL CHART CORRECTIONS

3CA3	3.0	12	9	40XZ
3FS5	3.0	A234	AC156	58V
4JC6	4.2	A1256	B479*	30XZ
4LJ8	4.2	123	AC689	
"	Short test 1 st sect. only.			
"		1236	89	44YZ
"		127	AC45	17YZ
6GJ7	6.3	A125	AC389*	29XZ
"		123	AC67	25V

TUBE TYPE	FIL	CIRCUIT		PLATE TEST
		D	E	
6HB7	6.3	A125	AC389*	32XZ
"		124	AC67	21V
6JC6	6.3	A1256	B479*	30XZ
6JD6	6.3	A1256	B479*	30XZ
6LB6	6.3	C1	C249	22V
"	Connect top cap to octal socket pin 3.			
6LC6	6.3	128	AC69	80XZ
"	OK if reads above 10.			
6LJ8	6.3	123	AC689	-
"	Short test 1 st sect. only.			
"	6.3	1236	89	44YZ
"	6.3	127	AC45	17YZ
8BM11	8.4	AC9	567*	34XZ
"	Nor-S Switch in S position.			
"		AC4	129*	40XZ
12HE7	12.6	AC8	AB469	14W
"	Connect jumper from 1 to 10 of 9-10			
"	pin min. socket.			
"		C3	1	13W
33GY7	35.0	AC8	AB469	29Z
"	Connect jumper between pins 1&10 of			
"	9-10 pin min. socket.			
"	35.0	C3	1	13W

* When testing this section for shorts the K-Cathode and G1-Grid No. 1 position of shorts test switch will be reversed.