

Rear View Model AV-38 with Cover Removed

SYMBOL	DESCRIPTION	S.C. OR M.	SYMBOL	DESCRIPTION	S.C. OR M.
G-1	GARCAPTOR-1A1 4000 MF - 3 D.C.W.V.	407344	R-1	RESISTOR-1.25 MEG. 1/2 WATT	28187
G-2	GARCAPTOR-1A2 4000 MF - 3 D.C.W.V.	407345	R-2	RESISTOR-1.25 MEG. 1/2 WATT	28187
G-3	GARCAPTOR-1A3 4000 MF - 3 D.C.W.V.	407346	R-3	RESISTOR-1.25 MEG. 1/2 WATT	28187
G-4	GARCAPTOR-1A4 4000 MF - 3 D.C.W.V.	407347	R-4	RESISTOR-1.25 MEG. 1/2 WATT	28187
G-5	GARCAPTOR-1A5 4000 MF - 3 D.C.W.V.	407348	R-5	RESISTOR-1.25 MEG. 1/2 WATT	28187
G-6	GARCAPTOR-1A6 4000 MF - 3 D.C.W.V.	407349	R-6	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-7	GARCAPTOR-1A7 4000 MF - 3 D.C.W.V.	407350	R-7	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-8	GARCAPTOR-1A8 4000 MF - 3 D.C.W.V.	407351	R-8	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-9	GARCAPTOR-1A9 4000 MF - 3 D.C.W.V.	407352	R-9	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-10	GARCAPTOR-1A10 4000 MF - 3 D.C.W.V.	407353	R-10	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-11	GARCAPTOR-1A11 4000 MF - 3 D.C.W.V.	407354	R-11	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-12	GARCAPTOR-1A12 4000 MF - 3 D.C.W.V.	407355	R-12	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-13	GARCAPTOR-1A13 4000 MF - 3 D.C.W.V.	407356	R-13	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-14	GARCAPTOR-1A14 4000 MF - 3 D.C.W.V.	407357	R-14	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-15	GARCAPTOR-1A15 4000 MF - 3 D.C.W.V.	407358	R-15	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-16	GARCAPTOR-1A16 4000 MF - 3 D.C.W.V.	407359	R-16	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-17	GARCAPTOR-1A17 4000 MF - 3 D.C.W.V.	407360	R-17	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-18	GARCAPTOR-1A18 4000 MF - 3 D.C.W.V.	407361	R-18	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-19	GARCAPTOR-1A19 4000 MF - 3 D.C.W.V.	407362	R-19	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-20	GARCAPTOR-1A20 4000 MF - 3 D.C.W.V.	407363	R-20	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-21	GARCAPTOR-1A21 4000 MF - 3 D.C.W.V.	407364	R-21	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-22	GARCAPTOR-1A22 4000 MF - 3 D.C.W.V.	407365	R-22	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-23	GARCAPTOR-1A23 4000 MF - 3 D.C.W.V.	407366	R-23	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-24	GARCAPTOR-1A24 4000 MF - 3 D.C.W.V.	407367	R-24	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-25	GARCAPTOR-1A25 4000 MF - 3 D.C.W.V.	407368	R-25	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-26	GARCAPTOR-1A26 4000 MF - 3 D.C.W.V.	407369	R-26	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-27	GARCAPTOR-1A27 4000 MF - 3 D.C.W.V.	407370	R-27	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-28	GARCAPTOR-1A28 4000 MF - 3 D.C.W.V.	407371	R-28	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-29	GARCAPTOR-1A29 4000 MF - 3 D.C.W.V.	407372	R-29	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-30	GARCAPTOR-1A30 4000 MF - 3 D.C.W.V.	407373	R-30	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-31	GARCAPTOR-1A31 4000 MF - 3 D.C.W.V.	407374	R-31	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-32	GARCAPTOR-1A32 4000 MF - 3 D.C.W.V.	407375	R-32	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-33	GARCAPTOR-1A33 4000 MF - 3 D.C.W.V.	407376	R-33	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-34	GARCAPTOR-1A34 4000 MF - 3 D.C.W.V.	407377	R-34	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-35	GARCAPTOR-1A35 4000 MF - 3 D.C.W.V.	407378	R-35	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-36	GARCAPTOR-1A36 4000 MF - 3 D.C.W.V.	407379	R-36	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-37	GARCAPTOR-1A37 4000 MF - 3 D.C.W.V.	407380	R-37	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-38	GARCAPTOR-1A38 4000 MF - 3 D.C.W.V.	407381	R-38	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-39	GARCAPTOR-1A39 4000 MF - 3 D.C.W.V.	407382	R-39	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-40	GARCAPTOR-1A40 4000 MF - 3 D.C.W.V.	407383	R-40	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-41	GARCAPTOR-1A41 4000 MF - 3 D.C.W.V.	407384	R-41	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-42	GARCAPTOR-1A42 4000 MF - 3 D.C.W.V.	407385	R-42	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-43	GARCAPTOR-1A43 4000 MF - 3 D.C.W.V.	407386	R-43	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-44	GARCAPTOR-1A44 4000 MF - 3 D.C.W.V.	407387	R-44	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-45	GARCAPTOR-1A45 4000 MF - 3 D.C.W.V.	407388	R-45	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-46	GARCAPTOR-1A46 4000 MF - 3 D.C.W.V.	407389	R-46	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-47	GARCAPTOR-1A47 4000 MF - 3 D.C.W.V.	407390	R-47	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-48	GARCAPTOR-1A48 4000 MF - 3 D.C.W.V.	407391	R-48	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-49	GARCAPTOR-1A49 4000 MF - 3 D.C.W.V.	407392	R-49	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-50	GARCAPTOR-1A50 4000 MF - 3 D.C.W.V.	407393	R-50	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-51	GARCAPTOR-1A51 4000 MF - 3 D.C.W.V.	407394	R-51	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-52	GARCAPTOR-1A52 4000 MF - 3 D.C.W.V.	407395	R-52	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-53	GARCAPTOR-1A53 4000 MF - 3 D.C.W.V.	407396	R-53	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-54	GARCAPTOR-1A54 4000 MF - 3 D.C.W.V.	407397	R-54	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-55	GARCAPTOR-1A55 4000 MF - 3 D.C.W.V.	407398	R-55	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-56	GARCAPTOR-1A56 4000 MF - 3 D.C.W.V.	407399	R-56	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-57	GARCAPTOR-1A57 4000 MF - 3 D.C.W.V.	407400	R-57	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-58	GARCAPTOR-1A58 4000 MF - 3 D.C.W.V.	407401	R-58	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-59	GARCAPTOR-1A59 4000 MF - 3 D.C.W.V.	407402	R-59	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-60	GARCAPTOR-1A60 4000 MF - 3 D.C.W.V.	407403	R-60	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-61	GARCAPTOR-1A61 4000 MF - 3 D.C.W.V.	407404	R-61	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-62	GARCAPTOR-1A62 4000 MF - 3 D.C.W.V.	407405	R-62	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-63	GARCAPTOR-1A63 4000 MF - 3 D.C.W.V.	407406	R-63	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-64	GARCAPTOR-1A64 4000 MF - 3 D.C.W.V.	407407	R-64	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-65	GARCAPTOR-1A65 4000 MF - 3 D.C.W.V.	407408	R-65	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-66	GARCAPTOR-1A66 4000 MF - 3 D.C.W.V.	407409	R-66	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-67	GARCAPTOR-1A67 4000 MF - 3 D.C.W.V.	407410	R-67	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-68	GARCAPTOR-1A68 4000 MF - 3 D.C.W.V.	407411	R-68	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-69	GARCAPTOR-1A69 4000 MF - 3 D.C.W.V.	407412	R-69	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-70	GARCAPTOR-1A70 4000 MF - 3 D.C.W.V.	407413	R-70	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-71	GARCAPTOR-1A71 4000 MF - 3 D.C.W.V.	407414	R-71	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-72	GARCAPTOR-1A72 4000 MF - 3 D.C.W.V.	407415	R-72	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-73	GARCAPTOR-1A73 4000 MF - 3 D.C.W.V.	407416	R-73	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-74	GARCAPTOR-1A74 4000 MF - 3 D.C.W.V.	407417	R-74	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-75	GARCAPTOR-1A75 4000 MF - 3 D.C.W.V.	407418	R-75	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-76	GARCAPTOR-1A76 4000 MF - 3 D.C.W.V.	407419	R-76	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-77	GARCAPTOR-1A77 4000 MF - 3 D.C.W.V.	407420	R-77	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-78	GARCAPTOR-1A78 4000 MF - 3 D.C.W.V.	407421	R-78	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-79	GARCAPTOR-1A79 4000 MF - 3 D.C.W.V.	407422	R-79	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-80	GARCAPTOR-1A80 4000 MF - 3 D.C.W.V.	407423	R-80	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-81	GARCAPTOR-1A81 4000 MF - 3 D.C.W.V.	407424	R-81	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-82	GARCAPTOR-1A82 4000 MF - 3 D.C.W.V.	407425	R-82	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-83	GARCAPTOR-1A83 4000 MF - 3 D.C.W.V.	407426	R-83	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-84	GARCAPTOR-1A84 4000 MF - 3 D.C.W.V.	407427	R-84	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-85	GARCAPTOR-1A85 4000 MF - 3 D.C.W.V.	407428	R-85	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-86	GARCAPTOR-1A86 4000 MF - 3 D.C.W.V.	407429	R-86	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-87	GARCAPTOR-1A87 4000 MF - 3 D.C.W.V.	407430	R-87	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-88	GARCAPTOR-1A88 4000 MF - 3 D.C.W.V.	407431	R-88	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-89	GARCAPTOR-1A89 4000 MF - 3 D.C.W.V.	407432	R-89	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-90	GARCAPTOR-1A90 4000 MF - 3 D.C.W.V.	407433	R-90	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-91	GARCAPTOR-1A91 4000 MF - 3 D.C.W.V.	407434	R-91	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-92	GARCAPTOR-1A92 4000 MF - 3 D.C.W.V.	407435	R-92	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-93	GARCAPTOR-1A93 4000 MF - 3 D.C.W.V.	407436	R-93	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-94	GARCAPTOR-1A94 4000 MF - 3 D.C.W.V.	407437	R-94	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-95	GARCAPTOR-1A95 4000 MF - 3 D.C.W.V.	407438	R-95	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-96	GARCAPTOR-1A96 4000 MF - 3 D.C.W.V.	407439	R-96	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-97	GARCAPTOR-1A97 4000 MF - 3 D.C.W.V.	407440	R-97	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-98	GARCAPTOR-1A98 4000 MF - 3 D.C.W.V.	407441	R-98	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-99	GARCAPTOR-1A99 4000 MF - 3 D.C.W.V.	407442	R-99	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-100	GARCAPTOR-1A100 4000 MF - 3 D.C.W.V.	407443	R-100	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-101	GARCAPTOR-1A101 4000 MF - 3 D.C.W.V.	407444	R-101	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-102	GARCAPTOR-1A102 4000 MF - 3 D.C.W.V.	407445	R-102	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-103	GARCAPTOR-1A103 4000 MF - 3 D.C.W.V.	407446	R-103	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-104	GARCAPTOR-1A104 4000 MF - 3 D.C.W.V.	407447	R-104	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-105	GARCAPTOR-1A105 4000 MF - 3 D.C.W.V.	407448	R-105	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-106	GARCAPTOR-1A106 4000 MF - 3 D.C.W.V.	407449	R-106	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-107	GARCAPTOR-1A107 4000 MF - 3 D.C.W.V.	407450	R-107	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-108	GARCAPTOR-1A108 4000 MF - 3 D.C.W.V.	407451	R-108	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-109	GARCAPTOR-1A109 4000 MF - 3 D.C.W.V.	407452	R-109	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-110	GARCAPTOR-1A110 4000 MF - 3 D.C.W.V.	407453	R-110	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-111	GARCAPTOR-1A111 4000 MF - 3 D.C.W.V.	407454	R-111	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-112	GARCAPTOR-1A112 4000 MF - 3 D.C.W.V.	407455	R-112	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-113	GARCAPTOR-1A113 4000 MF - 3 D.C.W.V.	407456	R-113	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-114	GARCAPTOR-1A114 4000 MF - 3 D.C.W.V.	407457	R-114	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-115	GARCAPTOR-1A115 4000 MF - 3 D.C.W.V.	407458	R-115	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-116	GARCAPTOR-1A116 4000 MF - 3 D.C.W.V.	407459	R-116	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-117	GARCAPTOR-1A117 4000 MF - 3 D.C.W.V.	407460	R-117	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-118	GARCAPTOR-1A118 4000 MF - 3 D.C.W.V.	407461	R-118	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-119	GARCAPTOR-1A119 4000 MF - 3 D.C.W.V.	407462	R-119	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-120	GARCAPTOR-1A120 4000 MF - 3 D.C.W.V.	407463	R-120	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-121	GARCAPTOR-1A121 4000 MF - 3 D.C.W.V.	407464	R-121	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-122	GARCAPTOR-1A122 4000 MF - 3 D.C.W.V.	407465	R-122	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-123	GARCAPTOR-1A123 4000 MF - 3 D.C.W.V.	407466	R-123	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-124	GARCAPTOR-1A124 4000 MF - 3 D.C.W.V.	407467	R-124	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-125	GARCAPTOR-1A125 4000 MF - 3 D.C.W.V.	407468	R-125	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-126	GARCAPTOR-1A126 4000 MF - 3 D.C.W.V.	407469	R-126	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-127	GARCAPTOR-1A127 4000 MF - 3 D.C.W.V.	407470	R-127	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-128	GARCAPTOR-1A128 4000 MF - 3 D.C.W.V.	407471	R-128	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-129	GARCAPTOR-1A129 4000 MF - 3 D.C.W.V.	407472	R-129	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-130	GARCAPTOR-1A130 4000 MF - 3 D.C.W.V.	407473	R-130	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-131	GARCAPTOR-1A131 4000 MF - 3 D.C.W.V.	407474	R-131	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-132	GARCAPTOR-1A132 4000 MF - 3 D.C.W.V.	407475	R-132	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-133	GARCAPTOR-1A133 4000 MF - 3 D.C.W.V.	407476	R-133	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-134	GARCAPTOR-1A134 4000 MF - 3 D.C.W.V.	407477	R-134	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-135	GARCAPTOR-1A135 4000 MF - 3 D.C.W.V.	407478	R-135	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-136	GARCAPTOR-1A136 4000 MF - 3 D.C.W.V.	407479	R-136	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-137	GARCAPTOR-1A137 4000 MF - 3 D.C.W.V.	407480	R-137	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-138	GARCAPTOR-1A138 4000 MF - 3 D.C.W.V.	407481	R-138	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G-139	GARCAPTOR-1A139 4000 MF - 3 D.C.W.V.	407482	R-139	POTENTIOMETER-25 MEG. 1/2 WATT	45745
G					

**AMPLIFIER GROUND**—A good building ground such as a connection to a cold water pipe or the frame of a steel building should be terminated under the knurled nut located on the rear of the pre-amplifier base.

**FUSE REPLACEMENT**—When replacing a blown fuse, use only a  $\frac{3}{4}$  amp., 250 volt. type 3AG. To use a fuse of higher rating will needlessly endanger the winding of the power transformer.



MODELS AV-38,  
AV-39

STROMBERG-CARLSON CO.

## VOLTAGE CHART

Tube		Terminals							
†Symbol	Type	1	2	3	4	5	6	7	8
V1	6SC7	0	235	0	0	235	1.65	*6.3	*6.3
V2	6SC7	0	190	0	0	190	1.65	*6.3	*6.3
V3	6SC7	0	210	0	0	210	1.65	*6.3	*6.3
V4	6SC7	0	200	0	0	200	1.65	*6.3	*6.3
V5	6N7	0	*6.3	300	0	0	300	*6.3	6.5
V6	6SC7	0	235	0	0	170	1.65	*6.3	*6.3
V7	6SC7	0	190	0	0	190	1.65	*6.3	*6.3
~V8	6X5GT/G	0	*6.3	‡315		‡315		*6.3	375

**INPUT TRANSFORMERS**— When installing input transformers in the Model AV-39, twist together the green, black, yellow and brown (primary) leads as far as wiring will permit. Also twist together the blue and red (secondary) leads. Wire as shown on amplifier schematic. The red lead must be grounded at the tube socket. After installation, loosen the mounting ring and rotate the transformer to the position of minimum hum. To insure proper grounding of the transformer case, tighten the mounting ring after adjustment.

No signal input. Power supply 117 volt, 60 cycle.

D.C. voltages measured to chassis using vacuum-tube voltmeter

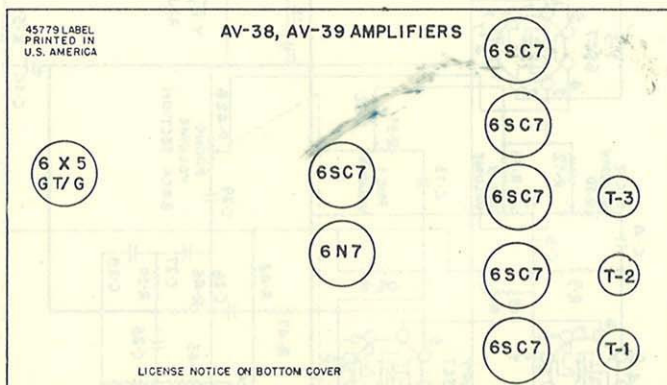
†Symbol used on amplifier schematic.

‡A.C. voltages measured to chassis.

\*A.C. heater voltages measured between terminals indicated.

Variations of  $\pm 10\%$  from above values may be obtained due to variations in tubes, resistors, etc.

## TUBE LOCATION CHART



Model AV-38 Pre-Amplifier

When enclosed in conduit, microphone lines may be run together, but never run any other type of wiring in the same conduit. If the shield on the microphone line is used as the return conductor, it must be insulated throughout its length from contact with conduits, etc., and grounded only at the amplifier, through pin #1 of the microphone chassis connector. If a shielded twisted pair is used for a microphone line, it is preferable to insulate the shield from contact with conduits, etc., although it may not be necessary on short runs. In any case, the shield should be grounded at the amplifier only through pin #1 of the microphone chassis connector.



Model AV-39 Pre-Amplifier



STROMBERG-CARLSON CO.

MODELS AV-38,  
AV-39

## SPECIFICATIONS

**SIZE WITH COVER**—13½" wide, 11" deep, 10½" high. Includes allowance for knobs.

**WEIGHT**—Net 18 lbs.

**TUBES SUPPLIED**—6-6SC7, 1-6X7, 1-6X5GT/G.

**POWER SUPPLY**—105-125 volts, 50-60 cps.

**POWER CONSUMED**—40 watts at 117 volts.

**INPUTS—**

*Phonograph*—One high-impedance input with low and high-gain input connections. The low-gain input connection provides equalization for crystal phonograph pickups. The high-gain connection provides a .25 megohm-impedance input without equalization.

*Microphone*—Three Microphone Inputs.

Model AV-38—Low-impedance for 30 to 50 ohm microphones. Input transformer wiring easily changed to provide 150 to 500 ohm input.

Model AV-39—High-impedance with provisions for installation of low-impedance input transformers.

**CONTROLS**—Three microphone; one phonograph; bass boost for phonograph only; microphone bass attenuator on back of chassis; treble attenuator for all inputs; on-off power switch; and on Model AV-38 only, meter range switch.

**OUTPUT LEVEL METER**—Supplied on Model AV-38 and available for installation on Model AV-39. 3 inch, square, black phenolic case. Buff colored dial, with buff, green and red-colored scale sections, marked "Low," "Normal" and "Excessive." Calibrated -20 to +3 db. with 0 db. equal to 1.945 volts rms. Effective A.C. resistance at 0 db. is 5,000 ohms  $\pm 10\%$  at 400 cps. Accuracy  $\pm 2\%$  at 0 db.,  $\pm 5\%$  at +3 db. and  $\pm 3\%$  at points below 0 db. Response time .4 to .7 seconds with the overswing at 0 db. not to exceed .7 db. Frequency response from 25 to 16,000 cps.  $\pm .5$  db. from the 400 cps. value.

**POWER GAIN—**

*Phonograph*—High-gain input connection, 44 db. at 400 cps. based on 600 ohm source impedance or 62 db. based on 50,000 ohm source impedance. Equivalent input sensitivity .075 volts. Low-gain connection 42 db. based on 50,000 ohm source impedance. Equivalent input sensitivity .8 volts for rated output.

*Microphone, Model AV-38*—86 db. at 400 cps. based on 38 ohm input source impedance. This is equivalent to an input sensitivity of 121 microvolts for rated output.

*Microphone, Model AV-39*—89 db. at 400 cps. based on 50,000 ohm input source impedance. This is equivalent to an input sensitivity of 3.4 microvolts for rated output.

**POWER OUTPUT**—+18 VU (program level 18 db. above 1 milliwatt). This amplifier is capable of 63 milliwatts output at less than 2% total harmonic content measured at 100, 400, and 5,000 cps.

**OUTPUT IMPEDANCE**—600 ohms, center-tapped at 150 ohms. Three screw-type terminals provided for external connections. 600 ohms to monitor headphone jack.

**FREQUENCY RESPONSE**—With tone controls set for most nearly uniform amplifier response, the microphone response from 60 to 12,000 cps. varies less than +0 db. -3 db. from the 400 cps. value.

Using a 600 ohm source and the high-gain phonograph input, the frequency response from 60 to 12,000 cps. varies less than  $\pm 1.5$  db. from the 400 cps. value.

For use with a light-weight crystal pickup cartridge, the low-gain phonograph input is equalized to provide the conjugate of the recording response curve in general use for phonograph records and for lateral transcriptions (NAB or Orthacoustic Standard).

**tone controls**—The dual treble control decreases the high-frequency response of the amplifier to a maximum of 34 db. at 10,000 cps. on phonograph response and to a maximum of 17 db. on microphone response. The treble circuit provides a sharper than normal cut-off resulting in less attenuation of the middle-frequency range for the same reduction of high-frequency noise.

The microphone bass control provides bass attenuation on microphone-input circuits to a maximum of 17 db. at 50 cps.

The phono bass control increases the low-frequency response on the phonograph input circuit from an attenuation of 3 db. to a boost of 12 db. at 90 cps.

**HUM LEVEL**—Combined noise and hum level is at least 50 db. below rated output with tone controls set for most-nearly-uniform frequency response.

**OUTPUT VOLTAGE REGULATION**—Approximately 6 db. from full output load to no load.

**FINISH**—Glacier Gray over copper-plate.