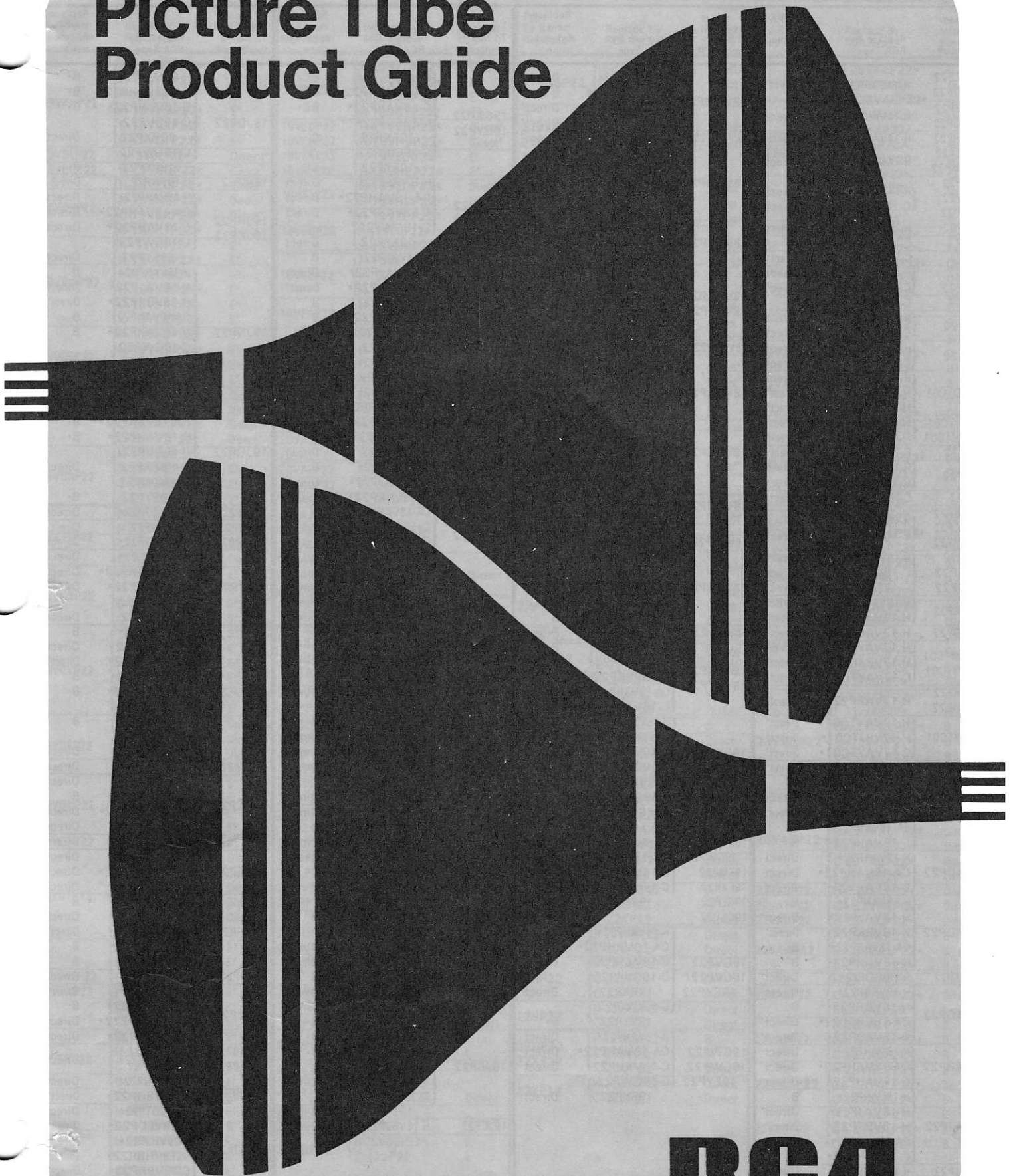


PO# 34758

# Picture Tube Product Guide



**RCA**

# Color Picture Tube Interchangeability

Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲
14VACP22	H-14VAHP22*	Direct*	18VAMP22	H-18VBDP22*	Direct*	19GXP22	H-18VAHP22*	BC*	19JDP22	H-18VAHP22*	B*
14VADP22	H-14VALP22*	Direct*		H-18VBGP22*	B		CA-18VAHP22*	BC*		CA-18VAHP22*	B*
14VAEP22	H-14VALP22*	Direct*	18VANP22	CA-18VBDP22*	Direct*	19GYP22	C-18VAHP22*	BC*	19JGP22	C-18VAHP22*	B*
14VAGP22	H-14VAHP22*	Direct*		C-18VBDP22*	Direct*		C-19GVP22/	19EXP22		C	C-19GVP22/
14VAHP22	H-14VAHP22*	Direct*	18VAQP22	C-18VANP22*	Direct*	19GZP22	C-19GWP22/	19EYP22	19JHP22	C-19GWP22/	19EYP22
14VALP22	H-14VALP22*	Direct*		H-18VAHP22*	B		C-19GWP22/	19EYP22		BC*	C-19GWP22/
14VAMP22	H-14VALP22*	Direct*	18VARP22	H-18VAJP22*	Direct*	19HBP22	19EYP22	Direct	19JJP22	19EYP22	Direct
15AEP22	H-14VAHP22*	Direct*		H-18VAJP22*	B		H-18VAHP22*	Direct		Direct	C-19JWP22
15AFP22	C-15AEP22	Direct*	18VAVP22	CA-18VAHP22*	B	19HCP22	CA-18VAHP22*	Direct	19JJP22	H-18VAHP22*	Direct
15AGP22	C-15AEP22	Direct*		CA-18VAHP22*	B		CA-18VAHP22*	Direct		Direct	CA-18VAHP22*
15AJP22	H-14VAHP22*	Direct*	18VAVP22	C-18VAHP22*	B	19HCP22	C-18VAHP22*	B	19JJP22	C-18VAHP22*	Direct
15KP22	C-15LP22	B*		H-18VAHP22*	Direct		C-19GWP22/	19EYP22		Direct	C-18VAHP22*
15LP22	C-15LP22	Direct	18VAVP22	C-18VAHP22*	Direct	19HCP22	19EYP22	B	19JJP22	C-19GWP22/	19EYP22
15NP22	H-14VAHP22*	Direct*		H-18VAHP22*	B		C-19GWP22/	19EYP22		Direct*	19EYP22
15QP22	C-15NP22	Direct*	18VAVP22	H-18VAJP22*	Direct*	19HCP22	H-18VAJP22*	Direct*	19JJP22	H-18VAJP22*	Direct*
15RP22	C-15LP22	B*		H-18VAJP22*	B		H-18VBKP22*	B		B	H-18VAJP22*
15SP22	H-14VALP22*	Direct*	18VAVP22	H-18VBKP22*	Direct*	19HCP22	C-18VAHP22*	B	19JJP22	CA-18VAHP22*	B
15TP22	C-15AEP22	Direct*		CA-18VAHP22*	B		C-19GWP22/	19EYP22		B	C-18VAHP22*
15VADTC01	H-15VADTC01*	Direct*	18VAVP22	C-18VAHP22*	B	19HCP22	C-19GWP22/	19EYP22	19JJP22	C-19GWP22/	19EYP22
	H-15VAETC01*	Direct*		H-18VAHP22*	B		19HCP22/	19HCP22		Direct*	C-19HCP22/
15VAMTC01	H-15VAMTC01*	Direct*	18VAVP22	H-18VAJP22*	Direct*	19HFP22	H-18VAJP22*	Direct	19JJP22	H-18VAHP22*	B*
15WP22	C-15LP22	Direct		H-18VBKP22*	Direct*		CA-18VAHP22*	Direct		Direct	CA-18VAHP22*
15XP22	H-14VAHP22*	Direct*	18VAVP22	CA-18VAHP22*	B	19HFP22	C-18VAHP22*	Direct	19JJP22	C-18VAHP22*	B*
15ZP22	C-15LP22	Direct		C-18VAHP22*	B		C-19GWP22/	19EYP22		Direct	C-19GVP22/
16VABP22	H-16VACP22*	Direct*	18VBDP22	H-18VBDP22*	Direct*	19HJP22	H-18VAHP22*	B	19JJP22	C-19GWP22/	19EYP22
16VACP22	C-16VACP22*	Direct*		H-18VBGP22*	Direct*		C-18VAHP22*	B		B	C-19GWP22/
16VAHP22	H-16VACP22*	Direct*	18VBDP22	CA-18VBDP22*	Direct*	19HJP22	H-18VAJP22*	Direct*	19JJP22	H-18VBGP22*	Direct
17E2P22	C-16VACP22*	Direct*		H-18VBGP22*	B		C-18VAHP22*	B		B	C-19JWP22
17FAP22	C-17E2P22	Direct*	18VBHP22	C-18VBDP22*	Direct*	19HHP22	C-18VAHP22*	Direct	19JJP22	C-18VANP22*	Direct*
17FKP22	H-17VACP22*	Direct*		H-18VAHP22*	B		C-19GWP22/	19EYP22		B	C-18VAHP22*
17VACP22	H-17VADP22*	Direct*	18VBHP22	H-18VAJP22*	Direct*	19HHP22	C-19HCP22/	19HCP22	19JJP22	C-18VAHP22*	Direct
17VADP22	H-17VADP22*	Direct*		H-18VBKP22*	Direct*		19HHP22	19HHP22		Direct*	C-19GWP22/
17VAMP22	H-17VADP22*	Direct*	18VBHP22	CA-18VAHP22*	B	19HHP22	C-19HNP22	Direct*	19JJP22	19HHP22	Direct
17VAMTC01	H-17VAYTC01*	Direct*		H-18VAJP22*	B		C-18VAHP22*	B*		B*	H-18VAHP22*
17VANTC01	C-17VAYTC01*	Direct*	18VBHP22	H-18VAJP22*	Direct*	19HHP22	CA-18VAHP22*	B*	19JJP22	H-18VAJP22*	Direct*
17VARP22	H-17VARP22*	Direct*		H-18VBKP22*	Direct*		C-19GVP22/	19EXP22		Direct	H-18VBKP22*
17VAUP22	H-17VARP22*	Direct*	18VBHP22	CA-18VAHP22*	B	19HHP22	C-19GWP22/	19EYP22	19JJP22	CA-18VAHP22*	B
17VAYTC01	H-17VAYTC01*	Direct*		C-18VAHP22*	B		C-19GWP22/	19EYP22		B*	C-18VAHP22*
17VBJTC01	H-17VBJTC01*	Direct*	18VBHP22	H-18VAHP22*	B*	19HHP22	H-18VAHP22*	Direct	19JJP22	C-19HCP22/	19HCP22
18VABP22	H-18VAHP22*	B		CA-18VAHP22*	B*		C-18VAHP22*	Direct		Direct	C-19HCP22/
18VABP22	H-18VAHP22*	B	18VBHP22	C-18VAHP22*	B*	19HHP22	CA-18VAHP22*	Direct	19JJP22	H-18VAHP22*	B
	H-18VAJP22*	Direct*		H-18VAJP22*	B		C-19GWP22/	19EYP22		Direct	H-18VAHP22*
18VABP22	H-18VBKP22*	Direct*	18VBHP22	C-19GWP22/	19EYP22	19HHP22	C-19GWP22/	19EYP22	19JJP22	CA-18VAHP22*	Direct
	CA-18VAHP22*	B		19EYP22	B*		C-19GWP22/	19EYP22		Direct	C-18VAHP22*
18VABP22	CA-18VAHP22*	B	18VBHP22	19EYP22	B*	19HHP22	H-18VBJP22*	Direct*	19JJP22	C-18VAHP22*	Direct
	C-18VAHP22*	B		19EYP22/	H-18VAHP22*		Direct	H-18VAHP22*		B	H-18VAHP22*
18VACP22	H-18VAHP22*	Direct	18VBHP22	CA-18VAHP22*	Direct	19HHP22	H-18VAJP22*	Direct*	19JJP22	H-18VAHP22*	Direct
	CA-18VAHP22*	Direct		C-18VAHP22*	Direct		CA-18VAHP22*	Direct*		Direct*	CA-18VAHP22*
18VACP22	C-18VAHP22*	Direct	18VBHP22	C-18VAHP22*	Direct	19HHP22	H-18VBKP22*	Direct*	19JJP22	C-18VAHP22*	Direct
	H-18VAHP22*	B		C-19GWP22/	19EYP22		Direct	CA-18VAHP22*		B	C-18VAHP22*
18VADP22	H-18VAHP22*	B	18VBHP22	19GLP22	Direct	19HHP22	C-19GWP22/	19EYP22	19JJP22	H-18VAHP22*	B
	H-18VAJP22*	Direct*		19GSP22	Direct		C-19GWP22/	19EYP22		B	H-18VAJP22*
18VADP22	H-18VBKP22*	Direct*	18VBHP22	H-18VAHP22*	B*	19HHP22	C-19HCP22/	19HCP22	19JJP22	H-18VBKP22*	Direct*
	CA-18VAHP22*	B		CA-18VAHP22*	B*		C-19GWP22/	19EYP22		Direct*	CA-18VAHP22*
18VADP22	C-18VAHP22*	B	18VBHP22	C-18VAHP22*	B*	19HHP22	19HHP22	Direct	19JJP22	CA-18VAHP22*	B
	H-18VAHP22*	B		19GVP22/	H-18VAHP22*		Direct	H-18VBJP22*		Direct*	C-18VAHP22*
18VAFP22	H-18VBJP22*	Direct*	18VBHP22	CA-18VAHP22*	B*	19HHP22	H-18VBJP22*	Direct*	19JJP22	H-18VBJP22*	Direct*
	H-18VBDP22*	Direct*		C-18VAHP22*	B*		H-18VBJP22*	B		Direct*	H-18VBJP22*
18VAFP22	H-18VBGP22*	B	18VBHP22	19EXP22	Direct	19HHP22	H-18VBGP22*	B	19JJP22	H-18VBDP22*	Direct*
	H-18VBDP22*	Direct*		19GWP22	Direct		CA-18VBDP22*	Direct*		Direct*	H-18VBDP22*
18VAGP22	CA-18VBDP22*	Direct*	18VBHP22	C-19GWP22/	19EYP22	19HHP22	CA-18VBDP22*	Direct*	19JJP22	CA-18VBDP22*	Direct*
	C-18VBDP22*	Direct*		19EXP22	Direct		C-18VBDP22*	Direct*		Direct*	CA-18VBDP22*
18VAHP22	H-18VAHP22*	Direct	18VBHP22	19EXP22	Direct	19HHP22	H-18VAHP22*	B*	19JJP22	H-18VAHP22*	B
	CA-18VAHP22*	Direct		C-18VAHP22*	Direct		C-19GWP22/	19EYP22		B*	H-18VAHP22*
18VAHP22	C-18VAHP22*	Direct	18VBHP22	19GWP22	Direct	19HHP22	C-19GWP22/	19EYP22	19JJP22	H-18VAHP22*	B
	H-18VAHP22*	B		19GWP22/	C-18VAHP22*		Direct	C-19GWP22/		19EYP22	B
18VAHP22	H-18VAHP22*	B	18VBHP22	19EYP22	Direct	19HHP22	19EYP22	B	19JJP22	H-18VAHP22*	B
	H-18VAJP22*	Direct*		19EYP22	Direct		C-19HCP22/	19HCP22		Direct*	H-18VAHP22*
18VAJP22	H-18VBKP22*	Direct*	18VBHP22	CA-18VAHP22*	Direct	19HHP22	H-18VBGP22*	B	19JJP22	H-18VBGP22*	Direct*
	CA-18VAHP22*	B		C-18VAHP22*	Direct		CA-18VBDP22*	Direct*		Direct*	H-18VBGP22*
18VALP22	C-18VAHP22*	B	18VBHP22	19EYP22	Direct	19HHP22	C-18VBDP22*	Direct*	19JJP22	H-18VBDP22*	Direct*
	H-18VBGP22*	Direct		19EYP22	Direct		CA-18VBDP22*	Direct*		Direct*	H-18VBDP22*

Bold face type indicates RCA MATRIX Color Picture Tubes. For footnotes, see page 7.

# Color Picture Tube Interchangeability

Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲		
19VAUP22	H-19VDP22*	E*	19VEBP22	H-19VEDP22*	E*	21VABP22	H-21VAKP22*	Direct	23EGP22 23EGP22A	H-23VALP22*	G		
	H-19VEDP22*	E*		H-19VHBP22*	E*		CA-21VAKP22*	Direct		H-23VANP22*	G		
	H-19VEUP22*	E*		C-19VBRP22*	E*		C-21VAMP22*	Direct		CA-23VALP22*	G		
	H-19VHBP22*	E*		C-19VCTP22*	E*		H-21VAKP22*	B		CA-23VANP22*	G		
19VBLP22	H-19VBLP22*	Direct*	19VEDP22	H-19VEDP22*	Direct*	21VACP22	H-21VBEP22*	Direct*	23EGP22 23EGP22A	CA-25XP22/ 25AP22A	G		
19VBQP22	H-19VBQP22*	Direct*	19VEHP22	H-19VHBP22*	Direct*	21VAFP22	H-21VBKP22*	Direct*		C-23VALP22*	G		
19VBRP22	H-19VEDP22*	Direct*	19VELP22	H-19VHBP22*	E*	21VAJP22	CA-21VAKP22*	B		C-23VANP22*	G		
	H-19VHBP22*	Direct*	19VESP22	H-19VEDP22*	Direct*	21VAKP22 21VAMP22	H-21VAKP22*	Direct		C-25BCP22	G		
	C-19VBRP22*	Direct*	19VEUP22	H-19VEUP22*	Direct*		CA-21VAKP22*	Direct	C-25XP22/ 25AP22A	G			
	C-19VCTP22*	Direct*	19VEZP22	H-19VHBP22*	Direct*		C-21VAMP22*	Direct	C-23VALP22*	G			
19VBWP22	H-19VDP22*	E*	19VEUP22	H-19VEUP22*	Direct*		21VAQP22 21VAUP22	H-21VAKP22*	B	23VABP22	H-23VALP22*	Direct	
	H-19VEDP22*	E*	19VEZP22	H-19VEDP22*	E*	H-21VBEP22*		Direct*	H-23VANP22*		Direct		
	H-19VEUP22*	E*	19VEZP22	H-19VEUP22*	E*	H-21VBKP22*		Direct*	CA-23VANP22*		Direct		
	H-19VHBP22*	E*	19VFAP22	H-19VHBP22*	E*	CA-21VAKP22*		B	C-23VALP22*		Direct		
19VCFP22	C-19VBRP22*	E*	19VFKP22	H-19VEDP22*	E*	21VAYP22	CA-21VAKP22*	Direct	23VACP22 23VADP22 23VAGP22	C-23VANP22*	Direct		
	C-19VCTP22*	E*	19VFKP22	H-19VHBP22*	E*		C-21VAMP22*	Direct		H-23VALP22*	B		
	19VCNP22	H-19VEDP22*	Direct*	19VGTCC01	H-19VGTCC01*		Direct*	21VAZP22		H-21VAKP22*	B	H-23VANP22*	B
		H-19VHBP22*	Direct*	19VHBP22	H-19VEDP22*		Direct*			H-21VBEP22*	Direct*	CA-23VALP22*	B
C-19VBRP22*		Direct*	19VHBP22	H-19VHBP22*	Direct*	H-21VBKP22*	Direct*		CA-23VANP22*	B			
C-19VCTP22*		Direct*	20VABP22	H-20VAGP22*	B	CA-21VAKP22*	B		C-23VALP22*	B			
19VCRP22	H-19VEDP22*	E*	20VADP22	H-20VAGP22*	Direct	21VBEP22 21VBFP22 21VBGP22 21VBHP22 21VBKP22	H-21VAKP22*	Direct	23VAHP22	H-23VALP22*	Direct		
	H-19VHBP22*	E*	20VAEP22	H-20VAGP22*	B		H-21VBEP22*	Direct*		H-23VANP22*	Direct		
	C-19VBRP22*	E*	20VAGP22	H-20VAGP22*	Direct		H-21VBKP22*	Direct*		CA-23VALP22*	Direct		
	C-19VCTP22*	E*	20VAHP22	H-20VAHP22*	Direct*		CA-21VAKP22*	B		CA-23VANP22*	Direct		
19VCTP22	H-19VEDP22*	Direct*	20VJAP22	H-20VAGP22*	B	22ABP22	H-20VAGP22*	Direct	23VALP22	C-23VALP22*	Direct		
	H-19VHBP22*	Direct*	20VAKP22	H-20VAGP22*	B		C-22JP22	B		H-23VALP22*	B		
	C-19VBRP22*	Direct*	20VALP22	H-20VAGP22*	Direct		22ADP22	H-20VAGP22*		Direct*	CA-23VALP22*	Direct	
	C-19VCTP22*	Direct*	20VAMP22	H-20VAGP22*	Direct		22AGP22	C-22JP22		B	C-23VALP22*	Direct	
19VCXP22	H-19VEDP22*	E*	20VANP22	H-20VAGP22*	Direct	22AMP22	C-22UP22	Direct*	23VAMP22	H-23VALP22*	B		
	H-19VHBP22*	E*	20VARP22	H-20VAGP22*	B		CA-21VAKP22*	Direct		CA-23VALP22*	B		
	C-19VBRP22*	E*	20VASP22	H-20VAGP22*	B		C-21VAMP22*	Direct		C-23VALP22*	B		
	C-19VCTP22*	E*	21AXP22	H-19VABP22*	BCJE*		H-21VAKP22*	Direct		H-23VALP22*	Direct		
19VCYP22	H-19VDP22*	E*	21AXP22A	C-21GUP22/ 21FBP22A	CJE	22ANP22	H-20VAHP22*	Direct*	23VANP22	H-23VANP22*	Direct		
	H-19VEDP22*	E*	21AXP22A/ 21AXP22	C-21GVP22/ 21FJP22A	BCJE*		22ARP22	H-20VAGP22*		Direct	CA-23VALP22*	Direct	
	H-19VEUP22*	E*	21CYP22	H-19VABP22*	BJ		22ASP22	C-22JP22		B	CA-23VANP22*	Direct	
	H-19VHBP22*	E*	21CYP22A	C-21GUP22/ 21FBP22A	J		22AVP22	C-22UP22		Direct*	C-23VALP22*	Direct	
19VDFP22	C-19VBRP22*	E*	21FBP22	C-21GVP22/ 21FJP22A	BJ,	22AXP22	H-20VAGP22*	B	23VAQP22	H-23VALP22*	B		
	C-19VCTP22*	Direct*	21FBP22A	C-21GVP22/ 21FJP22A	J		H-21VAKP22*	Direct		H-23VANP22*	B		
	19VDQP22	H-19VEDP22*	E*	21FBP22A/ 21GUP22	H-19VABP22*		J	CA-21VAKP22*		Direct	CA-23VALP22*	B	
		H-19VHBP22*	E*	21FJP22	H-19VABP22*		J	C-21VAMP22*		Direct	C-23VANP22*	B	
C-19VBRP22*		E*	21FJP22A	C-21GVP22/ 21FJP22A	J	H-21VAKP22*	B	C-23VAQP22*	Direct*				
C-19VCTP22*		E*	21FJP22A	H-21VBEP22*	Direct*	H-21VBKP22*	Direct*	H-23VALP22*	Direct				
19VDSP22	H-19VDP22*	E*	21FJP22A	CA-21VAKP22*	B	22AYP22 22BCP22	CA-21VAKP22*	B	23VARP22	CA-23VALP22*	Direct		
	H-19VEDP22*	Direct*	21FJP22A/ 21GVP22	C-21VAMP22*	B		H-20VAGP22*	Direct		CA-23VANP22*	Direct		
	H-19VEUP22*	Direct*	21FKP22	H-20VAGP22*	Direct		H-20VAGP22*	Direct		C-23VALP22*	Direct		
	H-19VHBP22*	Direct*	21GFP22	C-22JP22	L		C-22JP22	Direct		C-23VANP22*	Direct		
19VDP22	H-19VHBP22*	Direct*	21GLP22	H-20VAGP22*	L	22JP22	H-20VAGP22*	B*	23VASP22 23VATP22 23VAUP22	H-23VALP22*	Direct		
	C-19VBRP22*	Direct*	21GNP22	C-22JP22	L		H-20VAGP22*	B*		CA-23VALP22*	Direct		
	C-19VCTP22*	Direct*	21GRP22	H-19VABP22*	B*		C-22KP22	Direct		C-23VALP22*	Direct		
	19VDWP22	H-19VDP22*	E*	21GUP22	C-21GUP22/ 21FBP22A		Direct	22KP22		H-20VAGP22*	Direct	23VAWP22	H-23VALP22*
H-19VEDP22*		E*	21GUP22/ 21FBP22A	C-21GVP22/ 21FJP22A	B*	22LP22	H-20VAGP22*		Direct	CA-23VALP22*	B		
H-19VEUP22*		E*	21GVP22	H-19VABP22*	Direct	22QP22	C-22JP22		Direct	C-23VALP22*	B		
H-19VHBP22*		E*	21GVP22/ 21FJP22A	C-21GVP22/ 21FJP22A	Direct	22RP22	C-22KP22		Direct	H-23VALP22*	Direct		
19VDXP22	C-19VBRP22*	E*	21GWP22	H-20VAGP22*	L	22SP22	H-20VAGP22*	Direct	23VAXP22	CA-23VALP22*	Direct		
	C-19VCTP22*	E*	21GXP22	C-22JP22	L		22UP22	H-20VAGP22*		B	H-23VALP22*	B	
	19VDYP22	H-19VEDP22*	E*	21GYP22	H-19VABP22*		Direct	22XP22		C-22JP22	B	CA-23VALP22*	B
		H-19VHBP22*	E*	21GYP22	C-21GVP22/ 21FJP22A		Direct	22YP22		C-22UP22	Direct*	C-23VALP22*	B*
C-19VBRP22*		E*	21GZP22	H-20VAGP22*	Direct	H-20VAGP22*	Direct		CA-23VALP22*	B*			
C-19VCTP22*		E*	21HAP22	H-19VABP22*	Direct	C-22JP22	Direct		C-23VALP22*	B*			
19VEAP22	H-19VDP22*	E*	21HBP22	H-20VAGP22*	L	23BAP22	H-23VALP22*		B	23VABP22	H-23VALP22*	B	
	H-19VEDP22*	E*	21HBP22	C-22JP22	L		CA-23VALP22*	B	CA-23VALP22*		B		
	H-19VEUP22*	E*											
	H-19VHBP22*	E*											

Bold face type indicates RCA MATRIX Color Picture Tubes. For footnotes, see page 7.



# Color Picture Tube Interchangeability

Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲				
25RP22	H-23VALP22*	B•	25VARP22 25VASP22 25VATP22	H-25VDP22*	Direct	25VBUP22 25VBWP22	H-25VCZP22*	Direct*	25VCZP22	H-25VCZP22*	Direct*				
	H-23VANP22*	B•		CA-25VABP22*	Direct		H-25VDP22*	B		H-25VDP22*	B	H-25VDP22*	B		
	CA-23VALP22*	B•		C-25VABP22*	Direct		H-25VEHP22*	Direct*		H-25VEHP22*	Direct*	H-25VEHP22*	Direct*		
	CA-23VANP22*	B•		C-25VAEP22*	Direct		CA-25VABP22*	B		CA-25VABP22*	B	CA-25VABP22*	B	H-25VDXP22*	Direct
	CA-25XP22/ 25AP22A	B•		C-25VAMP22*	Direct		C-25VAMP22*	Direct		C-25VAMP22*	B	C-25VAMP22*	B	H-25VDXP22*	Direct
	C-23VALP22*	B•	25VAUP22	C-25VCKP22*	Direct	C-25VCKP22*	Direct	C-25VCKP22*	B	C-25VCKP22*	B	H-25VDXP22*	Direct		
	C-23VANP22*	B•		H-25VDXP22*	Direct	H-25VDXP22*	B	H-25VDXP22*	Direct	H-25VDXP22*	Direct	H-25VDXP22*	Direct		
	C-25BCP22	B•		CA-25VABP22*	Direct	CA-25VABP22*	Direct	CA-25VABP22*	Direct	CA-25VABP22*	Direct	H-25VBEPP22*	Direct*		
	C-25XP22/ 25AP22A	B•		C-25VABP22*	Direct	C-25VABP22*	Direct	C-25VABP22*	Direct	C-25VABP22*	Direct	H-25VBEPP22*	Direct*		
	C-25YP22/ 25BP22A	Direct		C-25VAMP22*	Direct	C-25VAMP22*	Direct	C-25VAMP22*	Direct	C-25VAMP22*	Direct	H-25VBEPP22*	Direct*		
25SP22	H-23VALP22*	Direct	25VAWP22	H-25VEHP22*	Direct*	25VBYP22	H-25VCZP22*	Direct*	25VDKP22	H-25VCZP22*	Direct				
	H-23VANP22*	Direct		CA-25VABP22*	B		H-25VDP22*	B		H-25VDP22*	B	H-25VDP22*	B		
	CA-23VALP22*	Direct		C-25VABP22*	B		H-25VEHP22*	Direct*		H-25VEHP22*	Direct*	H-25VEHP22*	Direct*	H-25VDP22*	B
	CA-23VANP22*	Direct		C-25VAEP22*	B		CA-25VABP22*	B		CA-25VABP22*	B	CA-25VABP22*	B	CA-25VABP22*	B
	CA-25XP22/ 25AP22A	Direct		C-25VAMP22*	B		C-25VAMP22*	B		C-25VAMP22*	B	C-25VAMP22*	B	C-25VAMP22*	B
	C-23VALP22*	Direct	25VAZP22	C-25VCKP22*	B	25VBP22	C-25VCKP22*	B	25VDP22	H-25VDXP22*	Direct*				
	C-23VANP22*	Direct		H-25VCZP22*	Direct*		H-25VDP22*	B		H-25VDP22*	B	H-25VDP22*	B		
	C-25BCP22	Direct		H-25VDP22*	B		CA-25VABP22*	Direct		CA-25VABP22*	Direct	CA-25VABP22*	Direct	CA-25VABP22*	Direct
	C-25XP22/ 25AP22A	Direct		H-25VEHP22*	Direct*		C-25VABP22*	Direct		C-25VABP22*	Direct	C-25VABP22*	Direct	CA-23VANP22*	Direct
				CA-25VABP22*	Direct		C-25VAEP22*	Direct		C-25VAEP22*	Direct	C-25VAEP22*	Direct	CA-25XP22/ 25AP22A	Direct
25VABP22	H-25VDP22*	Direct	25VBAP22	C-25VAMP22*	B	25VCEP22 25VCFP22	H-25VCZP22*	Direct*	25VEHP22	H-25VCZP22*	Direct*				
	CA-25VABP22*	Direct		C-25VCKP22*	B		H-25VDP22*	B		H-25VDP22*	B	H-23VALP22*	Direct		
	C-25VABP22*	Direct		CA-25VABP22*	Direct		H-25VEHP22*	Direct*		H-25VEHP22*	Direct*	H-23VANP22*	Direct		
	C-25VAMP22*	Direct		C-25VABP22*	Direct		CA-25VABP22*	B		CA-25VABP22*	B	CA-23VALP22*	Direct		
	C-25VCKP22*	Direct		C-25VAMP22*	B		C-25VAMP22*	B		C-25VAMP22*	B	CA-23VANP22*	Direct		
25VACP22	H-25VCZP22*	Direct*	25VBEP22	C-25VAEP22*	Direct	25VCGP22	H-25VDP22*	Direct	25VP22	CA-25XP22/ 25AP22A	Direct				
	H-25VDP22*	B		C-25VAMP22*	Direct		CA-25VABP22*	Direct		CA-25XP22/ 25AP22A	Direct	25WP22	Direct		
	H-25VEHP22*	Direct*		C-25VCKP22*	Direct		C-25VABP22*	Direct		C-25VABP22*	Direct	25XP22/ 25AP22A	Direct		
	CA-25VABP22*	B		H-25VCZP22*	Direct*		C-25VAMP22*	Direct		C-25VAMP22*	Direct	C-23VALP22*	Direct		
	C-25VABP22*	B		H-25VDP22*	B		C-25VCKP22*	Direct		C-25VCKP22*	Direct	C-23VANP22*	Direct		
25VADP22	C-25VAMP22*	B	25VBGP22	H-25VDP22*	Direct*	25VCHP22	H-25VCZP22*	Direct*	25Y22	C-25XP22/ 25AP22A	Direct				
	C-25VCKP22*	B		H-25VDP22*	B		H-25VDP22*	B		H-25VDP22*	B	H-23VALP22*	B•		
	H-25VDP22*	Direct		CA-25VABP22*	B		H-25VEHP22*	Direct*		H-25VEHP22*	Direct*	H-23VANP22*	B•		
	CA-25VABP22*	Direct		C-25VABP22*	B		CA-25VABP22*	B		CA-25VABP22*	B	CA-23VALP22*	B•		
	C-25VABP22*	Direct		C-25VAEP22*	B		C-25VABP22*	B		C-25VABP22*	B	CA-23VANP22*	B•		
25VAEP22	C-25VAMP22*	Direct	25VBHP22	C-25VAMP22*	B	25VCKP22	C-25VAEP22*	B	25Y22/ 25BP22A	CA-25XP22/ 25AP22A	B•				
	C-25VCKP22*	Direct		H-25VDP22*	Direct		H-25VDP22*	Direct		H-25VDP22*	Direct	C-23VALP22*	B•		
	H-25VDP22*	Direct		CA-25VABP22*	Direct		C-25VCKP22*	Direct		C-25VCKP22*	Direct	C-23VANP22*	B•		
	CA-25VABP22*	Direct		C-25VABP22*	Direct		H-25VCZP22*	Direct*		H-25VCZP22*	Direct*	C-25BCP22	B•		
	C-25VAEP22*	Direct		C-25VAMP22*	Direct		H-25VDP22*	B		H-25VDP22*	B	C-25XP22/ 25AP22A	B•		
25VAFP22	C-25VCKP22*	Direct	25VBKP22	C-25VCKP22*	Direct	25VCNP22	H-25VEHP22*	Direct*	25ZP22	C-25YP22/ 25BP22A	Direct				
	H-25VCZP22*	Direct*		H-25VCZP22*	Direct*		H-25VCZP22*	Direct*		H-25VCZP22*	Direct*	H-23VALP22*	Direct		
	H-25VDP22*	B		H-25VDP22*	B		H-25VDP22*	B		H-25VDP22*	B	H-23VANP22*	Direct		
	H-25VEHP22*	Direct*		CA-25VABP22*	Direct		H-25VEHP22*	Direct*		H-25VEHP22*	Direct*	CA-23VALP22*	Direct		
	CA-25VABP22*	B		C-25VABP22*	Direct		CA-25VABP22*	B		CA-25VABP22*	B	CA-23VANP22*	Direct		
25VAGP22	C-25VABP22*	B	25VBLP22	C-25VAEP22*	Direct	25VCQP22	C-25VAMP22*	B	25ZP22	CA-25XP22/ 25AP22A	Direct				
	C-25VAMP22*	B		H-25VDP22*	Direct		H-25VDP22*	B		H-25VDP22*	B	C-23VALP22*	Direct		
	C-25VCKP22*	B		CA-25VABP22*	Direct		H-25VEHP22*	Direct*		H-25VEHP22*	Direct*	C-23VANP22*	Direct		
	H-25VDP22*	Direct		C-25VABP22*	Direct		CA-25VABP22*	B		CA-25VABP22*	B	CA-25XP22/ 25AP22A	Direct		
	H-25VEHP22*	Direct*		C-25VAEP22*	Direct		C-25VAMP22*	B		C-25VAMP22*	B	C-23VALP22*	Direct		
25VAJP22 25VAKP22	C-25VAMP22*	B	25VBMP22	C-25VCKP22*	Direct	25VCRP22	H-25VCZP22*	Direct*	26AP22	C-23VANP22*	Direct				
	C-25VCKP22*	B		H-25VCZP22*	Direct*		H-25VCZP22*	Direct*		H-25VCZP22*	Direct*	C-25BCP22	Direct		
	H-25VDP22*	Direct		H-25VDP22*	B		H-25VDP22*	B		H-25VDP22*	B	C-25XP22/ 25AP22A	Direct		
	CA-25VABP22*	Direct		CA-25VABP22*	Direct		C-25VABP22*	B		C-25VABP22*	B	C-23VALP22*	Direct		
	C-25VABP22*	Direct		C-25VAMP22*	Direct		C-25VABP22*	B		C-25VABP22*	B	C-23VANP22*	Direct		
25VALP22 25VAMP22	C-25VAMP22*	B	25VBNP22	C-25VCKP22*	Direct	25VCUP22	C-25VAMP22*	B	26DP22	H-25VDP22*	Direct*				
	C-25VCKP22*	Direct		H-25VDP22*	B		H-25VDP22*	B		H-25VDP22*	B	H-25VCZP22*	Direct*		
	H-25VDP22*	Direct*		CA-25VABP22*	B		H-25VDP22*	B		H-25VDP22*	B	H-25VDP22*	B		
	H-25VDP22*	Direct*		C-25VABP22*	B		H-25VEHP22*	Direct*		H-25VEHP22*	Direct*	H-25VEHP22*	Direct*		
	H-25VEHP22*	Direct*		C-25VAEP22*	B		CA-25VABP22*	B		CA-25VABP22*	B	CA-25VABP22*	B		
25VAQP22	CA-25VABP22*	B	25VBQP22 25VBRP22	C-25VAMP22*	B	25VCWP22 25VCYP22	C-25VAMP22*	B	26DP22	C-25VABP22*	B				
	C-25VABP22*	B		H-25VDP22*	Direct*		H-25VDP22*	Direct*		H-25VDP22*	Direct*	C-25VAMP22*	B		
	C-25VAMP22*	B		H-25VDP22*	B		H-25VDP22*	B		H-25VDP22*	B	C-25VAMP22*	B		
	C-25VAMP22*	B		H-25VEHP22*	Direct*		H-25VEHP22*	Direct*		H-25VEHP22*	Direct*	C-25VCKP22*	B		
	C-25VCKP22*	B		CA-25VABP22*	B		CA-25VABP22*	B		CA-25VABP22*	B	C-25VCKP22*	B		
		C-25VABP22*	B	C-25VAMP22*	B	C-25VAMP22*	B								
		C-25VCKP22*	B	C-25VCKP22*	B	C-25VCKP22*	B								
		H-25VBEPP22*	Direct*	H-25VBEPP22*	Direct*	H-25VBEPP22*	Direct*								

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# Color Picture Tube Interchangeability

Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲		
26FP22	H-25VDP22*	Direct	490AKB22A	H-18VAHP22*	B•	490BRB22	H-18VAHP22*	Direct	490UB22	H-18VAHP22*	BJ•		
	CA-25VABP22*	Direct		CA-18VAHP22*	B•		CA-18VAHP22*	Direct		CA-18VAHP22*	BJ•		
	C-25VABP22*	Direct		C-18VAHP22*	B•		C-18VAHP22*	Direct		C-18VAHP22*	BJ•		
	C-25VAEP22*	Direct		C-19GVP22/ 19EXP22	Direct		C-19GVP22/ 19EYP22	Direct		C-19GVP22/ 19EXP22	J		
	C-25VAMP22*	Direct		C-19GWP22/ 19EYP22	B•		C-19GWP22/ 19EYP22	B•		C-19GWP22/ 19EYP22	BJ•		
26GP22	H-25VCP22*	Direct*	490ALB22 490AMB22	H-18VAHP22*	BJ•	490BSB22	H-18VAZP22*	L*	490VB22	H-18VAHP22*	J		
	H-25VDP22*	B		CA-18VAHP22*	BJ•		C-19JWP22	Direct		CA-18VAHP22*	J		
	H-25VEHP22*	Direct*		C-18VAHP22*	BJ•		H-18VAZP22*	L*		C-18VAHP22*	J		
	CA-25VABP22*	B		C-19GVP22/ 19EXP22	J		C-19JWP22	B•		C-19GWP22/ 19EYP22	J		
	C-25VABP22*	B		C-19GWP22/ 19EYP22	BJ•		H-18VAHP22*	Direct		H-18VAHP22*	BJ•		
	C-25VAEP22*	B					CA-18VAHP22*	Direct		CA-18VAHP22*	BJ•		
26HP22	H-25VBE22*	Direct*	490AMB22A	H-18VAHP22*	B•	490CAB22	C-18VAHP22*	Direct	490WB22	C-18VAHP22*	BJ•		
	H-25VDP22*	Direct		CA-18VAHP22*	B•		C-19GVP22/ 19EYP22	Direct		C-19GVP22/ 19EXP22	J		
26KP22	CA-25VABP22*	Direct	490AMB22A	C-18VAHP22*	B•	490CAB22A	H-18VAHP22*	Direct	490XB22	H-18VAHP22*	J		
	C-25VABP22*	Direct		C-19GVP22/ 19EXP22	Direct		CA-18VAHP22*	Direct		CA-18VAHP22*	J		
	C-25VAMP22*	Direct		C-19GWP22/ 19EYP22	B•		C-18VAHP22*	Direct		C-18VAHP22*	BJ•		
	C-25VCKP22*	Direct					C-19GVP22/ 19EYP22	Direct		C-19GVP22/ 19EYP22	BJ•		
370AB22	H-14VALP22*	Direct*	490ANB22	H-18VAHP22*	BJ•	490CB22	H-18VAHP22*	BJ•	490YB22	H-18VAHP22*	J		
	C-15AEP22	Direct*		CA-18VAHP22*	BJ•		C-19GVP22/ 19EXP22	J		C-18VAHP22*	J		
370CB22	H-14VAHP22*	Direct*	490ANB22	C-18VAHP22*	BJ•	490CB22	C-19GVP22/ 19EXP22	J	490ZB22	C-19GVP22/ 19EYP22	J		
	C-15NP22	Direct*		C-19GVP22/ 19EXP22	J		C-19GWP22/ 19EYP22	BJ•		H-19VDP22*	Direct*		
370EB22	H-14VALP22*	Direct*	490ANB22	C-19GWP22/ 19EYP22	BJ•	490CHB22	H-18VAHP22*	B•	510ELB22	H-19VEDP22*	Direct*		
	C-15AEP22	Direct*		H-18VAHP22*	J		CA-18VAHP22*	B•		H-19VEUP22*	Direct*		
490AB22	H-18VAHP22*	BJ•	490ARB22	CA-18VAHP22*	J	490CHB22	C-18VAHP22*	B•	510ERB22	H-19VHBP22*	Direct*		
	CA-18VAHP22*	BJ•		C-18VAHP22*	J		C-19GVP22/ 19EXP22	Direct		C-19VBRP22*	Direct*		
	C-18VAHP22*	BJ•		C-19GWP22/ 19EYP22	J		C-19GWP22/ 19EYP22	B•		C-19VCTP22*	Direct*		
490ACB22	C-19GVP22/ 19EXP22	J	490ASB22	H-18VAHP22*	Direct	490CHB22A	H-18VAHP22*	B•	510ERB22	H-19VEDP22*	E*		
490ADB22	C-19GWP22/ 19EYP22	BJ•		CA-18VAHP22*	Direct		CA-18VAHP22*	B•		C-19VBRP22*	Direct*		
				C-18VAHP22*	Direct		C-18VAHP22*	B•		C-19VCTP22*	Direct*		
490AEB22	H-18VAHP22*	J	490ASB22A	C-18VAHP22*	Direct	490CUB22	H-18VAHP22*	Direct	550AB22A	H-20VAGP22*	B•		
490AFB22	CA-18VAHP22*	J		CA-18VAHP22*	Direct		490DB22	CA-18VAHP22*		Direct	A49-14X	H-18VAHP22*	BJ•
490AGB22	C-18VAHP22*	J		C-19GWP22/ 19EYP22	Direct		490DB22A	C-19GWP22/ 19EYP22		Direct		CA-18VAHP22*	BJ•
490AHB22	H-18VAHP22*	BJ•	490ASB22B	H-18VAHP22*	Direct	490DEB22	H-18VAHP22*	Direct	A49-14X	C-19GVP22/ 19EXP22		J	
	CA-18VAHP22*	BJ•		CA-18VAHP22*	Direct		C-19GWP22/ 19EYP22	Direct		C-19GWP22/ 19EYP22	BJ•		
	C-18VAHP22*	BJ•		C-18VAHP22*	Direct		C-19GWP22/ 19EYP22	Direct		H-18VAHP22*	B•		
	C-19GVP22/ 19EXP22	J		C-19GWP22/ 19EYP22	Direct		490DHB22	H-18VBDP22*		Direct*	H-18VAHP22*	BJ•	
490AHB22A	CA-18VAHP22*	B•	490BAB22	CA-18VAHP22*	B•	490DHB22	CA-18VBDP22*	Direct*	490EB22	CA-18VAHP22*	BJ•		
	C-18VAHP22*	B•		C-18VAHP22*	B•		H-18VBDP22*	Direct*		CA-18VAHP22*	BJ•		
	C-19GVP22/ 19EXP22	Direct		C-19GWP22/ 19EYP22	B•		C-18VBDP22*	Direct*		C-18VAHP22*	BJ•		
490AHB22A	C-19GWP22/ 19EYP22	B•	490BCB22	H-18VAHP22*	Direct	490EB22	H-18VAHP22*	BJ•	490FB22	C-19GVP22/ 19EXP22	J		
				CA-18VAHP22*	Direct		490EB22A	C-19GVP22/ 19EXP22		J	C-19GWP22/ 19EYP22	BJ•	
				C-18VAHP22*	Direct		490GB22	C-19GWP22/ 19EYP22		BJ•			
490AHB22B	H-18VAHP22*	B•	490BDB22	C-19GWP22/ 19EYP22	Direct	490EB22	H-18VAHP22*	BJ•	490GB22	H-18VAHP22*	BJ•		
	CA-18VAHP22*	B•		H-18VAHP22*	J		490EB22A	CA-18VAHP22*		BJ•			
490AIB22	CA-18VAHP22*	B•	490BDB22	CA-18VAHP22*	J	490FB22	CA-18VAHP22*	B•	490GB22	CA-18VAHP22*	BJ•		
	C-18VAHP22*	B•		C-18VAHP22*	J		490JB22	C-19GVP22/ 19EXP22		J			
490AIB22A	C-19GWP22/ 19EYP22	Direct	490BDB22C	C-19GWP22/ 19EYP22	J	490JB22A	C-19GVP22/ 19EXP22	Direct	490MB22	C-19GWP22/ 19EYP22	BJ•		
		H-18VAHP22*		Direct	490K22		C-19GWP22/ 19EYP22	B•					
490AIB22B	H-18VAHP22*	Direct	490BDB22D	CA-18VAHP22*	Direct	490KB22	H-18VAHP22*	BJ•	490NB22	H-18VAHP22*	J		
	CA-18VAHP22*	Direct		C-18VAHP22*	Direct		490KB22A	CA-18VAHP22*		BJ•	CA-18VAHP22*	J	
490AKB22	C-18VAHP22*	Direct	490GB22	C-18VAHP22*	B•	490LB22	C-18VAHP22*	BJ•	490OB22	C-18VAHP22*	J		
	H-18VAHP22*	BJ•		CA-18VAHP22*	B•		490MB22	C-19GVP22/ 19EXP22		J	C-19GWP22/ 19EYP22	BJ•	
	CA-18VAHP22*	BJ•		C-19GVP22/ 19EXP22	Direct		490NB22	C-19GWP22/ 19EYP22		BJ•	H-18VAHP22*	J	
	C-18VAHP22*	BJ•		C-19GWP22/ 19EYP22	Direct			490RB22		H-18VAHP22*	J	CA-18VAHP22*	J
	C-19GVP22/ 19EXP22	J						490SB22		C-18VAHP22*	J	C-18VAHP22*	J
C-19GWP22/ 19EYP22	BJ•	490H22	H-18VAHP22*	Direct	490TB22	C-19GWP22/ 19EYP22	J						
			CA-18VAHP22*	Direct									
			490H22	C-18VAHP22*	Direct								
			490NB22	C-19JWP22	Direct								

Bold face type indicates RCA MATRIX Color Picture Tubes. For footnotes, see page 7.

# Picture Tube Interchangeability

## Important Instructions, Read Carefully

● The type to be replaced may have a manufacturer's coding prefix such as AN, C, CR, H, HR, OC, RE, REA, etc. Since these prefixes do not affect the electrical characteristics or interchangeability of the type, the prefixes have been omitted from type nos. in this column.

▲ Replacement information supplied in this chart is based primarily on electrical and mechanical similarity of the picture-tube types covered. The serviceman should make certain that replacement is in accord with all safety precautions required by the TV receiver for picture-tube insulation or mechanical mounting.

**Picture Tube Handling Precautions** — Picture tubes should be kept in the shipping box or similar protective container until just prior to installation. Wear heavy protective clothing, including gloves and safety goggles with side shields, in areas containing unpacked and unprotected tubes to prevent possible injury from flying glass in the event a tube breaks. Handle the picture tube with extreme care. Do not strike, scratch or subject the tube to more than moderate pressure. On types having an integral safety panel, particular care should be taken to prevent damage to the seal area and the edge of the integral safety panel.

When a glass picture tube has an external conductive coating, this coating, in combination with the internal conductive coating, provides a capacitor for use in filtering the high voltage power supply. When installing a replacement picture tube having an external conductive coating, provision should be made to ground the coating. Connection to the coating may be made by using a soft brush-type contact, preferably attached to the deflecting-yoke support. A contact area of at least 1/4 square inch is required.

In the case of an RCA similar type, its listed differences must be considered in using it as a replacement.

## Replacement Classification Keys

★ Contains improved X-radiation attenuating glass which enables it to comply with Federal Performance Standard for Television Receivers.

◆ The safety-glass window in the TV receiver may be removed when using this type as a replacement.

\* Band around periphery of tube panel must be grounded and isolated from the ac line voltage.

A. RCA type does not require an external ion-trap magnet.

B. The RCA replacement type is electrically interchangeable — Mounting hardware may have to be modified to accept the replacement type.

C. Neck length and/or overall length of RCA type is slightly greater.

D. External conductive coating must be grounded.

E. The RCA replacement type is electrically interchangeable — Mechanical modifications to the receiver may be required.

F. The RCA replacement type has a 6.3-volt/600-milliampere heater. The receiver picture tube heater circuit must be modified to use this replacement type.

G. Use Motorola Conversion Kit Part No. 1U68674A10 when using this type as a replacement.

H. The RCA replacement type is electrically interchangeable — The receiver socket should be replaced by RCA Part No.109858, or equivalent.

J. The RCA replacement is directly interchangeable in most cases; however, in some cases the red cathode lead may have to be interchanged with the blue or green cathode leads to obtain satisfactory black-and-white tracking. These modifications are described in an instruction sheet which is packed in the carton with each of the new types. Instruction sheets are also available from your RCA Distributor or RCA, Commercial Engineering, Harrison, NJ 07029. Replacement information for using RCA 21-inch, 70° round color picture tubes is contained in publication CLR-200C. Replacement information for using RCA 90° rectangular color picture tubes is contained in publication CLR-201D.

K. Pin No 6 (focusing electrode) of the RCA replacement must be connected to Pin No.11 at the socket. The original tube did not require an external voltage for focus.

L. The RCA replacement type is electrically interchangeable — Mounting hardware may have to be modified to accept the replacement type. In some small-cabinet receivers, the replacement may not be feasible.

M. The RCA replacement type is electrically interchangeable — The receiver socket should be replaced by RCA Part No.112579, Eby Sales Co. Part No.49-13DD, or equivalent.

P. The RCA replacement type is electrically interchangeable — The receiver socket should be rewired as follows: the lead on pin No.3 should be connected to pin No.2 (or pin No. 6) and the lead on pin No.6 should be connected to pin No.3.

# Black-&-White Picture Tube Interchangeability

Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲
5VABP4	5VABP4	Direct	17DRP4	17DRP4	Direct	19DLP4	19CHP4	Direct	19ZP4	19AVP4	Direct
8DP4	8DP4	Direct	17EMP4			19DNP4	19DRP4	E*	20AEP4	19VAHP4*	Direct*
9ACP4	9WP4	Direct*	17EWP4	16VAGP4*	Direct*	19DQP4			20ALP4	19VAJP4*	Direct*
9AEP4	9AEP4	Direct*	17FDP4			19DWP4	19DQP4	Direct*	20RP4	20RP4	Direct*
	9VABP4*	Direct*	17JP4	17BP4D	A	19DQP4/470SB4			20SP4	19VAHP4*	Direct*
9VABP4	9VABP4*	Direct*	17LP4			19DRP4	19DRP4	Direct*	20UP4	19VALP4*	Direct*
9VAJP4	9VAJP4*	Direct*	17LP4/17VP4	17LP4B	A	19DRP4/470NB4			20VAQP4	20VAQP4*	Direct*
9VAQP4			17LP4A			19DSP4	19DSP4	Direct*	20YP4	19VAHP4*	Direct*
9WP4			17LP4A/17VP4B			19DTP4	19DQP4	C*	20ZP4		
9WP4/230RB4A	9WP4	Direct*	17LP4B	17LP4B	Direct	19DUP4	19DUP4	Direct*	21ACP4		
10ASP4	9AEP4	Direct*	17QP4	17QP4B	A	19DWP4	19DQP4	Direct*	21ACP4/21AMP4		
	9VABP4*	Direct*	17QP4A			19DYP4	19CVP4	Direct*	21ACP4A	21AMP4B	A
10ATP4	10ATP4	Direct*	17QP4B	17QP4B	Direct	19EAP4	18VAUP4*	Direct*	21ACP4A/21BSP4		
10AVP4	10AVP4	Direct*	17SP4	17LP4B	AK	19EBP4	19EBP4	Direct*	21ACP4A/21BSP4/21AMP4A		
11CP4	11CP4	Direct	17UP4	17QP4B	A	19EDP4	19DRP4	Direct*	21AFP4	21YP4B	AD
11GP4	11GP4	Direct*	17VP4			19EFP4	19DSP4	Direct*	21ALP4		
12BFP4	12VAQP4*	B*	17VP4/17LP4	17LP4B	A	19EGP4	19EGP4	Direct*	21ALP4A		
	12VAWP4*	B*	17VP4B			19EHP4	19DRP4	Direct*	21ALP4A	21CBP4A	AD
12CFP4	12VAQP4*	Direct*	17YP4	17QP4B	A	19EHP4A	19DRP4	Direct*	21ALP4B		
12CNP4	12VAWP4*	Direct*	18VAUP4	18VAUP4*	Direct*	19EJP4	18VAUP4*	Direct*	21ALP4B/21ALP4A		
12CNP4A			18VBLP4	18VAUP4*	C*	19EKP4	19EKP4	Direct*	21AMP4	21AMP4B	A
12CTP4			19ABP4	19ABP4	Direct	19ELP4	19AVP4	Direct	21AMP4A	21AMP4B	Direct
12CTP4A	12DKP4	Direct*	19ACP4	19CHP4	Direct	19EMP4	19EBP4	C*	21ANP4	21CBP4A	AD
12CYP4			19ADP4	19AVP4	Direct	19ENP4	18VAUP4*	Direct*	21ANP4A	21CBP4A	AD
12DEP4	12DEP4	C*	19AFP4	19AFP4	Direct	19ENP4A			21AQP4	21AMP4B	AD
12DFP4	12DFP4	Direct*	19AGP4	19AVP4	C	19ERP4	19DRP4	Direct*	21AQP4A	21AMP4B	AD
12DKP4	12DKP4	Direct*	19AHP4	19AHP4	Direct	19ESP4	19DSP4	Direct*	21ARP4	21ZP4C	Direct
12DSP4	12DSP4	Direct*	19AJP4	19AJP4	Direct	19EUP4	19DRP4	Direct*	21ARP4A	21XP4B	AD
12VAFP4	12VAWP4*	Direct*	19AKP4	19AVP4	Direct	19FVP4	19DQP4	Direct*	21ATP4		
12VAGP4	12VAGP4*	Direct*	19ANP4	19AHP4	C	19EWP4			21ATP4A/21ATP4	21CBP4A	AD
12VAMP4	12VAWP4*	Direct*	19ARP4	19AFP4	Direct	19EWP4A	19EWP4	Direct*	21ATP4B		
12VAQP4	12VAQP4*	Direct*	19ATP4	19AFP4	C	19FCP4			21AUP4	21AVP4C	A
	12VAWP4*	Direct*	19AUP4	19AFP4	Direct	19FCP4A	19DQP4	Direct*	21AUP4A		
12VAUP4	12VAGP4*	Direct*	19AVP4	19AVP4	Direct	19FDP4			21AUP4B/21AUP4A		
12VAWP4	12VAWP4*	Direct*	19AWP4	19AHP4	C	19FEP4	18VAUP4*	Direct*	21AUP4C	21AVP4C	Direct
12VAXP4	12VAXP4*	Direct*	19AXP4	19AHP4	Direct	19FEP4A			21AVP4		
12VBNP4			19AYP4	19AHP4	Direct	19FEP4B			21AVP4/21AUP4		
12VBUP4	12VBNP4*	Direct*	19AZP4	19AVP4	Direct	19FGP4	19EBP4	Direct*	21AVP4A		
12VBYP4			19BDP4	19BDP4	Direct	19FJP4	19DQP4	Direct*	21AVP4B		
15VACP4	15VACP4*	Direct*	19BHP4	19AVP4	Direct	19FJP4A			21AVP4B/21AUP4A	21AVP4C	A
16BKP4	15VACP4*	C*	19BLP4	19AVP4	C	19FLP4	19FLP4	Direct*	21AVP4C		
16BTP4	15VACP4*	E*	19BMP4	19AFP4	C	19FNP4	19EBP4	Direct*	21AVP4B/21AVP4A		
16CHP4	15VACP4*	Direct*	19BRP4	19DRP4	E*	19FSP4	18VAUP4*	Direct*	21AVP4B/21AUP4A		
16CHP4A			19BSP4			19FTP4			21AVP4C	21AVP4C	Direct
16CVP4	15VACP4*	CE*	19BTP4	19AVP4	C	19FTP4A	19FLP4	Direct*	21AVP4		
16KP4	16RP4B	A	19BVP4	19AVP4	Direct	19FWP4	19AHP4	Direct	21AVP4A		
16KP4A	16RP4B	AD	19BWP4	19AHP4	Direct	19GAP4	19GAP4	Direct*	21AVP4B		
16QP4	16RP4B	AD	19BXP4	19AHP4	E	19GBP4	19DQP4	E*	21AVP4B/21AUP4A	21AVP4C	A
16RP4			19CAP4	19AVP4	C	19GEP4			21AVP4B/21AUP4A/21AUP4A		
16RP4/16KP4	16RP4B	A	19CDP4	19CXP4	Direct	19GEP4A	19GEP4A	Direct*	21AVP4B/21AUP4A		
16RP4A			19CFP4	19CHP4	CE	19GFP4			21AVP4C	21AVP4C	Direct
16RP4A/16KP4A			19CHP4	19CHP4	Direct	19GHP4	19DUP4	C*	21AVP4C		
16RP4B	16RP4B	Direct	19CJP4	19AVP4	Direct	19GJP4	19DQP4	Direct*	21AVP4C	21AVP4C	Direct
16TP4			19CKP4	19CHP4	E	19GJP4A			21AWP4	21AWP4A	A
16UP4	16RP4B	ACD	19CLP4	19BDP4	Direct	19GMP4	19CVP4	Direct	21AWP4A	21AWP4A	Direct
16VAGP4			19CMP4	19CXP4	Direct	19GNP4	19DRP4	Direct*	21AYP4	21XP4B	A
16VALP4	16VAGP4*	Direct*	19CQP4	19CXP4	Direct	19GRP4	19DQP4	Direct*	21BAP4	21CBP4A	Direct
16VAQP4			19CRP4	19BDP4	Direct	19GTP4	18VAUP4*	C*	21BCP4	21YP4B	C
16VBAP4			19CSP4	19CHP4	Direct	19VAHP4	19VAHP4*	Direct*	21BDP4	21AVP4C	Direct
16VBXP4			19CUP4	19CXP4	Direct	19VAJP4	19VAJP4*	Direct*	21BNP4	21CBP4A	Direct
16VBYP4	16VBYP4*	Direct*	19CVP4	19CVP4	Direct	19VALP4			21BSP4	21AMP4B	A
16XP4	16RP4B	AD	19CXP4	19CXP4	Direct	19VALP4/19VDEP4	19VALP4*	Direct*	21BTP4	21CBP4A	A
17AP4	17BP4D	ACD	19CYP4	19AVP4	C	19VCGP4			21CBP4		
17BP4	17BP4D	AD	19CZP4	19DQP4	E*	19VCJP4	19VAHP4*	Direct*	21CBP4A		
17BP4A			19DAP4			19VCLP4			21CBP4A/21CBP4A	21CBP4A	Direct
17BP4B	17BP4D	A	19DBP4	19DBP4	Direct	19VCM4			21CNP4		
17BP4C			19DCP4	19DRP4	Direct*	19VDEP4	19VALP4*	Direct*	21CNP4/21CNP4		
17BP4D	17BP4D	Direct	19DEP4	19AVP4	E	19VFEP4	19VFEP4*	Direct*	21CNP4		
17CFP4	17CFP4	Direct	19DFP4	19CHP4	Direct	19XFP4	19AVP4	Direct	21CNP4B		
17CYP4	17DRP4	Direct	19DHP4	19DSP4	Direct*	19YP4	19AVP4	C			
17DAP4	17DRP4	Direct	19DKP4	19DRP4	E*						
17DQP4	17DQP4	Direct									

For footnotes, see page 7



# Black-&-White Picture Tube Interchangeability

Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲	Type To Be Replaced●	Replace By RCA Type	Replacement Information▲
21CEP4	21EMP4/		23ACP4			23FEP4	23ENP4	Direct*	24BEP4	24AHP4	P
21CEP4A	21EQP4	Direct	23AFP4	23YP4	Direct	23FHP4	22VABP4*	Direct*	24CP4	24CP4B	Direct
21CMP4	21CBP4A	A	23AGP4	23CP4A	C	23FJP4	23ETP4	D*	24CP4A	24CP4B	A
21CQP4	21CQP4	Direct	23AHP4	23AHP4/		23FLP4	23EKP4	Direct*	24CP4B	24CP4B	Direct
21CUP4	21AMP4B	A	23AHP4/	23ASP4	Direct	23FMP4	23HFP4A	Direct*	24DP4		
21CVP4	21CBP4A	Direct	23ASP4			23FNP4	22VADP4*	Direct*	24DP4A	24AEP4	A
21CWP4	21CBP4A	A	23AKP4	23FP4A	C	23FP4			24DP4A/		
21CXPP4	21DSP4	Direct	23ALP4	23CQP4	Direct	23FP4A	23FP4A	Direct	24YP4		
21CZP4	21EMP4/		23ANP4	23BKP4	Direct	23FRP4	23FRP4	Direct*	24QP4	24CP4B	AD
	21EQP4	A	23ARP4	23ARP4	Direct	23FSP4	23FSP4	Direct*	24TP4		
21DAP4			23AHP4/			23FVP4			24VP4	24CP4B	A
21DEP4			23ASP4	23ASP4	Direct	23FVP4A	23HFP4A	Direct*	24VP4A		
21DEP4A			23ATP4	23BKP4	Direct	23FVP4B			24XP4	24CP4B	AD
21DEP4A/	21EMP4/		23AUP4	23AHP4/		23FZP4	23FSP4	Direct*	24YP4	24AEP4	A
21DEP4/	21EQP4	Direct	23BAP4	23ASP4	Direct	23GBP4	23HFP4A	Direct*	24ZP4	24AEP4	Direct
21CZP4			23AVP4	23CP4A	C	23GEP4	23ENP4	Direct*	230AUB4		
21DFP4			23AWP4	23BJP4	C	23GFP4	22VAEP4*	Direct*	230RB4	9WP4	Direct*
21DLP4	21DLP4	Direct	23BAP4	23CP4A	C	23GJP4			230WB4		
21DMP4	21EMP4/		23BDP4	23YP4	Direct	23GJP4A	22VABP4*	Direct*	310AVB4	{12VAQP4*	Direct*
	21EQP4	Direct	23BFP4	23FP4A	C	23GP4	23CP4A	Direct		{12VAWP4*	Direct*
21DNP4	21CBP4A	AD	23BGP4			23GSP4	23FSP4	Direct*	310EFB4A	12VAGP4*	Direct*
21DQP4	21DLP4	Direct	23BHP4	23BGP4	Direct	23GTP4	23ETP4	Direct*	310ENB4	12VAWP4*	Direct*
21DRP4	21CBP4A	Direct	23BJP4	23BJP4	Direct	23GUP4	23FRP4	Direct*	310ERB4	12VAWP4*	Direct*
21DSP4	21DSP4	Direct	23BKP4	23BKP4	Direct	23GVP4	22VABP4*	Direct*	310EVB4	12VAWP4*	Direct*
21EAP4	21FDP4	F	23BLP4	23BKP4	Direct	23GWP4	23GWP4	Direct*	310FCB4	12VAGP4*	Direct*
21EDP4			23BMP4	23YP4	Direct	23GXP4	23FSP4	Direct*	310FJB4	{12VAQP4*	Direct*
21EMP4	21EMP4/		23BNP4	23CP4A	Direct	23GZP4	23EKP4	E*		{12VAWP4*	Direct*
21EMP4/	21EQP4	Direct	23BP4	23CP4A	C	23HFP4			440VB4	16VAGP4*	Direct*
21EQP4			23BQP4	23BQP4	Direct	23HFP4A	23HFP4A	Direct*	470ACB4	19AYP4	Direct
21EP4	21EP4C	AD	23BTP4			23HGP4	22VAEP4*	Direct*	470KB4	19EBP4	Direct*
21EP4A	21EP4C	A	23BVP4	23YP4	Direct	23HLP4	23FSP4	Direct*	470NB4	19DRP4	Direct*
21EP4B	21EP4C		23BWP4			23HP4	23CP4A	Direct	470SB4	19DQP4	Direct*
21EP4C	21EP4C	Direct	23BXP4	23EKP4	E*	23HQP4	22VAEP4*	Direct*	590RB4	23ETP4	Direct*
21EQP4			23BZP4	23CGP4	Direct	23HQP4A	22VAEP4*	Direct*	A31-265W		
21ESP4	21EMP4/		23CBP4	23BQP4	Direct	23HRP4			A31-265W/	12VAWP4*	Direct*
21ETP4	21EQP4	Direct	23CEP4	23ARP4	Direct	23HSP4	23HWP4A	C*	12VAMP4		
21EVP4	21FDP4	CF	23CGP4	23CGP4	Direct	23HUP4			SG16KP4A	16RP4B	Direct
			23CP4			23HUP4A	22VABP4*	Direct*	SG17BP4B	17BP4D	Direct
21FAP4	21EMP4/		23CP4A	23CP4A	Direct	23HWP4			SG17LP4A	17LP4B	Direct
	21EQP4	Direct	23CQP4	23CQP4	Direct	23HWP4A	23HWP4A	Direct*	SG17QP4A	17QP4B	Direct
21FDP4	21FDP4	Direct	23CUP4	23CP4A	C	23HXP4	23HFP4A	Direct*	SG21ACP4A	21AMP4B	Direct
21FLP4	21CBP4A	Direct	23CZP4	23AHP4/		23HYP4	23JEP4	Direct*	SG21AUP4B	21AVP4C	Direct
21FP4	21FP4D	AD	23DAP4	23ASP4	Direct	23JAP4	22VABP4*	Direct*	SG21AWP4	21AWP4A	Direct
21FP4A	21FP4D	A	23DBP4	23DAP4	Direct	23JBP4	23FSP4	C*	SG21AWP4A		
21FP4C	21FP4D		23DBP4	23DBP4	Direct	23JEP4			SG21DEP4A	21EMP4/	
21FP4D	21FP4D	Direct	23DKP4	23EKP4	Direct*	23JEP4A	23JEP4	Direct*		21EQP4	Direct
21FVP4			23DLP4			23JGP4	23FRP4	Direct*	SG21EP4B	21EP4C	Direct
21FWP4	21FVP4	Direct*	23DLP4A	23ENP4	C*	23JHP4	23HFP4A	Direct*	SG21FLP4	21CBP4A	Direct
21FZP4			23DNP4	23BKP4	Direct	23JLP4	22VABP4*	Direct*	SG21FP4C	21FP4D	Direct
21GAP4	{20VAQP4*	Direct*	23DP4	23CP4A	C	23JP4	23JP4	Direct	SG21WP4A	21WP4B	Direct
21GAP4A	{21GAP4A	Direct*	23DQP4	23BKP4	M	23JRP4	22VACP4*	Direct	SG21XP4A	21XP4B	Direct
21JP4	21EP4C	Direct	23DSP4	23ENP4	M*	23KP4			SG21YP4A	21YP4B	Direct
21JP4A			23DSP4A	23ENP4		23KP4A	23FP4A	C	SG21ZP4B	21ZP4C	Direct
21KP4	21FP4D	AK	23DTP4	23EKP4	Direct*	23LP4	23ETP4	Direct*	SG24AEP4	24AEP4	Direct
21KP4A			23DXP4	23CP4A	Direct	23MP4			SG24CP4A	24CP4B	Direct
21MP4	21YP4B	E	23DYP4	23ETP4	D*	23MP4/					
21WP4	21WP4B	A	23DZP4	23EWP4A	Direct*	23MP4A/	23FP4A	Direct			
21WP4A			23ECP4	23ENP4	E*	23WP4					
21WP4B	21WP4B	Direct	23EDP4	23EKP4	E*	23MP4A/					
21XP4			23EHP4			23WP4A					
21XP4A	21XP4B	A	23EKP4	23EKP4	Direct*	23NP4	23NP4	Direct			
21XP4B	21XP4B	Direct	23ELP4			23QP4	23CP4A	Direct			
21YP4			23EMP4			23TP4	23YP4	Direct			
21YP4A	21YP4B	A	23ENP4	23ENP4	Direct*	23UP4	23BQP4	Direct			
21YP4B	21YP4B	Direct	23EP4	23EP4	Direct	23WP4	23FP4A	Direct			
21ZP4	21ZP4C	AD	23EQP4	23EWP4A	Direct*	23XP4					
21ZP4A			23ESP4	23HFP4A	Direct*	23YP4	23YP4	Direct			
21ZP4B	21ZP4C	A	23ETP4	23ETP4	Direct*	24ADP4					
21ZP4C	21ZP4C	Direct	23EWP4	23EWP4A	Direct*	24ADP4/					
22VABP4	22VABP4*	Direct*	23EWP4A	23EWP4A	Direct*	24VP4A/	24CP4B	A			
22VACP4	22VACP4*	Direct	23EYP4	23EYP4	Direct*	24CP4A/					
22VADP4	22VADP4*	Direct*	23EZP4	23EZP4	Direct*	24TP4					
22VAEP4	22VAEP4*	Direct*	23FBP4	23ENP4	Direct*	24AEP4	24AEP4	Direct			
22VARP4	22VABP4*	Direct*	23FCP4			24AHP4	24AHP4	Direct			
22VASP4			23FDP4	22VABP4*	Direct*	24ALP4					
						24ANP4	24AEP4	A			

For footnotes, see page 7.

# Color Picture Tube Characteristics\*

Nom. Tube Diag.	Type No.	Envelope Code	Safety Feature	Nom. Deflection Angle	Heater	Max. Anode Voltage	Range of Focus Voltage in Volts or % of Anode Voltage	Cutoff Characteristics		Screen Diag.	Screen Area	Max. Overall Length	Bas-ing	Approx. Tube Weight
								Neg. G1 Voltage	Range of G2 Voltage					
▲ Inches		●	★	Degrees	Volts/mA	kV		Volts	Volts	Inches	Sq.In	Inches		Pounds
<b>19</b>	<b>19GVP22</b>	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.231	14BE	21.0
	<b>19GVP22/19EXP22<sup>c</sup></b>	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.231	14BE	21.0
	<b>19GWP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.423	14BE	24.0
	<b>19GWP22/19EYP22<sup>c</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.423	14BE	24.0
	<b>19GXP22</b>	SGA	A	90	6.3/900	24.0	16.8 - 20.0	150	310-715	17.637	168	17.895	14BE	
	<b>19GYP22</b>	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	295-670	17.755	171	17.914	14BE	
	<b>19GZP22</b>	SGAT	D	90	6.3/1350	27.5	16.7 - 21.6	150	385-725	18.075	180	18.68	14BE	
	<b>19HBP22</b>	SGA	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.423	14BE	24.0
	<b>19HCP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.231	14BE	23.0
	<b>19HCP22/19HKP22<sup>c</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.231	14BE	23.0
	<b>19HDP22</b>	SGAT	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.231	14BE	23.0
	<b>19HFP22</b>	SGAT	D	90	6.3/1300	27.5	16.8 - 20.0	150	340-970	18.075	180	18.505	14BE	
	<b>19HJP22</b>	SGA	F	90	6.3/1300	27.5	16.8 - 20.0	150	340-970	18.075	180	18.425	14BE	
	<b>19HKP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.231	14BE	22.0
	<b>19HNP22<sup>c</sup></b>	SGA	F	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.231	14BH	23.0
	<b>19HQP22</b>	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	300-695	18.075	180	17.954	14BE	24.0
	<b>19HRP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	300-695	18.075	180	18.147	14BE	24.0
	<b>19HTP22</b>	SGA	K	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.231	14BH	23.0
	<b>19HXP22</b>	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	320-750	18.075	180	18.251	14BE	
<b>19HYP22</b>	SGA	F	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.231	14BH	23.0	
<b>19JAP22</b>	SGA	F	90	6.3/1350	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.231	14BH	23.0	
<b>19JBP22</b>	SGA	A	90	6.3/1350	27.5	16.8 - 20.0	150	285-685	18.075	180	18.231	14BE	21.0	
<b>19JCP22</b>	SGA	K	90	6.3/1350	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.231	14BH	23.0	
<b>19JDP22</b>	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	340-640	18.075	180	17.976	14BE		
<b>19JGP22</b>	SGAT	D	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	150	340-640	18.075	180	18.168	14BH		
<b>19JHP22</b>	SGA	D	90	6.3/900	27.5	16.8 - 20.0	150	340-640	18.075	180	18.168	14BE		
<b>19JKP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	340-640	18.075	180	18.168	14BE		
<b>19JNP22</b>	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	320-750	18.075	180	18.251	14BE	23.0	
<b>19JQP22</b>	SGA	A	90	6.3/800	27.5	16.8 - 20.0	150	310-700	18.075	180	17.992	14BE	21.0	
<b>19JSP22</b>	SGAT	D	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.423	14BH	24.0	
<b>19JWP22<sup>c</sup></b>	SGAT	D	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.423	14BH	24.0	
<b>19JXP22</b>	SGA	F	110	6.3/900	22.5	16.8 - 20.0	150	265-665	18.075	180	14.247	13C	22.5	
<b>19JYP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	18.075	180	18.423	14BE	24.0	
<b>19JZP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	18.075	180	18.231	14BE	23.0	
<b>19KBP22</b>	SGAT	D	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.423	14BH	24.0	
<b>19KCP22</b>	SGA	F	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.231	14BH	23.0	
<b>19KDP22</b>	SGA	K	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.231	14BH	23.0	
<b>19KEP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.423	14BE	24.0	
<b>19KFP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.231	14BE	23.0	
<b>19KHP22</b>	SGA	K	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.231	14BH	23.0	
<b>19KJP22</b>	SGA	F	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.231	14BH	23.0	
<b>19V</b>	<b>19VABP22<sup>h</sup></b>	RGAT	D	70	6.3/1800	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0
	<b>19VACP22</b>	RGA	D	70	6.3/1900	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0
	<b>19VANP22<sup>h</sup></b>	SGA	F	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.897	185	18.422	14BH	25.0
	<b>19VATP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	25.0
	<b>19VAUP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	125	200-540	18.897	185	18.422	14BE	
	<b>19VBLP22<sup>h</sup></b>	SGA	F	110	6.3/900	27.5	16.8 - 20.0	150	265-665	18.897	185	14.436	13C	24.0
	<b>19VBQP22<sup>hm</sup></b>	SGA	F	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-375	18.897	185	18.422	14BH	25.0
	<b>19VBRP22<sup>cm</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	25.0
	<b>19VBWP22</b>	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	285-665	18.897	185	18.440	14BE	25.0
	<b>19VCFP22<sup>m</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	25.0
	<b>19VCNP22<sup>m</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	25.0
	<b>19VCRP22<sup>m</sup></b>	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	270-665	18.897	185	18.440	14BE	25.0
	<b>19VCTP22<sup>cm</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	18.897	185	18.422	14BE	26.0
	<b>19VCP22<sup>m</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	25.0
	<b>19VCYP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	25.0
	<b>19VDFP22<sup>m</sup></b>	SGAT	F	90	6.3/900	27.5	16.8 - 20.0	150	250-640	18.897	185	18.590	14BE	25.0
	<b>19VDQP22<sup>m</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-650	18.897	185	18.440	14BE	25.0
	<b>19VDSP22<sup>hm</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	18.897	185	18.422	14BE	26.0
	<b>19VDTP22<sup>h</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	18.897	185	18.422	14BE	26.0
<b>19VDWP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	18.897	185	18.422	14BE	26.0	
<b>19VDXP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-650	18.897	185	18.440	14BE	25.0	
<b>19VDYP22<sup>m</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	25.0	
<b>19VEAP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-665	18.897	185	18.440	14BE	25.0	
<b>19VEBP22<sup>m</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-650	18.897	185	18.440	14BE	25.0	
<b>19VEDP22<sup>hm</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	250-645	18.897	185	18.422	14BE	27.5	
<b>19VEHP22<sup>m</sup></b>	SGA	F	90	6.3/900	33.0	16.8 - 20.0	150	240-640	18.897	185	18.590	14BE	25.0	
<b>19VEKP22<sup>m</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	25.0	
<b>19VELP22<sup>m</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	25.0	
<b>19VESP22<sup>m</sup></b>	SGAT	F	90	6.3/900	32.0	16.8 - 20.0	150	240-640	18.897	185	18.422	14BE	27.5	

RCA Hi-Lite and Colorama types shown in bold. For footnotes, see page 16.

# Color Picture Tube Characteristics\*

Nom. Tube Diag. ▲ Inches	Type No.	Envelope Code ●	Safety Feature ★	Nom. Deflection Angle Degrees	Heater Volts/mA	Max. Anode Voltage ▼ kV	Range of Focus Voltage in Volts or % of Anode Voltage	Cutoff Characteristics		Screen Diag. Inches	Screen Area Sq.In	Max. Overall Length Inches	Bas-ing	Approx. Tube Weight Pounds
								Neg. G1 Voltage Volts	Range of G2 Voltage Volts					
<b>19V</b>	<b>19VEUP22<sup>h</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	250-645	18.897	185	18.422	14BE	27.5
	19VEZP22	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	27.5
	19VFAP22 <sup>m</sup>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	285-685	18.897	185	18.422	14BE	
	19VFKP22 <sup>m</sup>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	270-655	18.898	185	18.352	14BE	
	<b>19VGQTC01<sup>hmp</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	405-800	18.897	185	16.667	13D	28.5
<b>19</b>	<b>19VHBP22<sup>hm</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	250-645	18.897	185	18.422	14BE	27.5
	490AB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.520	14BE	
	490ACB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.992	14BE	
	490ADB22	SGA	A	90	6.3/800	23.0	16.8 - 20.0	50-105	200	17.637	168	17.992	14BE	
	490AEB22	SGA	D	90	6.3/800	23.0	16.8 - 20.0	50-105	200	17.637	168	17.992	14BE	
	490AFB22	SGA	D	90	6.3/800	23.0	16.8 - 20.0	50-105	200	17.637	168	17.792	14BE	
	490AGB22	SGA	D	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.756	14BE	
	490AHB22	SGA	A	90	6.3/900	27.5	4200 - 5000V	150	285-684	18.075	180	17.95	14BE	24.0
	490AHB22A	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	300-695	18.075	180	17.954	14BE	24.0
	490AHB22B	SGA	A	90	6.3/900	27.5	4200 - 5000V	100	150-420	18.07	180	17.57	14BE	24.0
	490AJB22	SGAT	D	90	6.3/900	26.0	16.8 - 20.0	150	150-420	18.075	180	18.147	14BE	24.0
	490AJB22A	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	300-695	18.075	180	18.147	14BE	24.0
	490AJB22B	SGA	D	90	6.3/900	27.5	4200 - 5000V	100	150-420	18.075	180	18.146	14BE	24.0
	490AKB22	SGA	A	90	6.3/800	26.0	16.8 - 20.0	50-105	200	18.075	180	17.579	14BE	
	490AKB22A	SGA	A	90	6.3/800	26.0	16.8 - 20.0	050-105	200	18.075	180	17.579	14BE	
	490ALB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.520	14BE	
	490AMB22	SGA	A	90	6.3/900	26.0	4030 - 4800V	100	200-520	18.075	180	17.952	14BE	
	490AMB22A	SGA	A	90	6.3/900	27.5	16.8 - 20.0	50-105	200	18.075	180	17.953	14BE	
	490ANB22	SGA	A	90	6.3/900	25.5	16.8 - 20.0	50-105	200	18.075	180	17.579	14BE	
	490ARB22	SGA	D	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.756	14BE	
	490ASB22	SGAT	D	90	6.3/900	26.0	16.8 - 20.0	100	200-520	18.075	180	18.146	14BE	
	490ASB22A	SGA	D	90	6.3/900	27.5	16.8 - 20.0	50-105	200	18.075	180	18.146	14BE	
	490ASB22B	SGAT	D	90	6.3/900	27.5	4200 - 5000V	100	200-520	18.075	180	18.147	14BE	
	490BAB22	SGA	A	90	6.3/800	26.0	16.8 - 20.0	150	285-685	18.075	180	18.228	14BE	22.0
	490BCB22	SGAT	D	90	6.3/800	26.0	16.8 - 20.0	150	285-685	18.075	180	18.421	14BE	24.0
	490BDB22	SGA	D	90	6.3/900	27.5	16.8 - 20.0	150	360-620	18.075	180	18.165	14BE	
	490BDB22C	SGA	D	90	6.3/900	27.5	4200 - 5000V	95-190	400	18.07	180	17.77	14BE	24.0
	490BDB22D	SGA	D	90	6.3/900	27.5	4200 - 5000V	100	150-490	18.075	180	18.146	14BE	24.0
	490GB22	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.228	14BE	22.0
	490HBB22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.421	14BE	25.0
	490BNB22	SGAT	D	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	18.151	14BH	
	490BRB22	SGA	D	90	6.3/900	27.5	16.8 - 20.0	150	340- 630	18.075	180	18.168	14BE	
	490BSB22	SGA	A	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	18.075	180	17.954	14BH	21.0
	490BVB22	SGAT	D	90	6.3/900	23.0	- 75 - 400V <sup>g</sup>	100	150-410	18.075	180	18.540	14BH	24.0
	490BVB22	SGAT	D	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	190-380	18.075	180	18.168	14BH	
	490BZB22	SGA	A	90	6.3/900	23.0	- 75 - 400V <sup>g</sup>	100	150-420	18.075	180	18.346	14BH	
	490BZB22A	SGA	A	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-420	18.075	180	18.346	14BH	
	490CAB22	SGA	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.147	14BE	24.0
	490CAB22A	SGA	D	90	6.3/900	27.5	4200 - 5000V	100	150-420	18.075	180	18.146	14BE	24.0
	490CB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200	18.075	180	17.520	14BE	
	490CHB22	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	360-620	18.075	180	17.953	14BE	
	490CHB22A	SGA	A	90	6.3/900	27.5	4200 - 5000V	100	200-520	18.075	180	17.953	14BE	
	490CSB22A	SGA	G	90	6.3/900	27.5	4200 - 5000V	100	150-420	18.075	180	17.953	14BE	
490CUB22	SGA	D	90	6.3/900	27.5	16.8 - 20.0	50-105	200	18.075	180	18.539	14BE		
490DB22	SGA	D	90	6.3/900	23.0	16.8 - 20.0	50-105	200	18.075	180	18.110	14BE		
490DB22A	SGA	D	90	6.3/900	23.0	16.8 - 20.0	50-105	200	18.075	180	17.772	14BE		
490DEB22	SGA	D	90	6.3/900	27.5	- 75 - 400V <sup>g</sup>	100	195-380	18.075	180	18.165	14BH	24.0	
490DHB22	SGA	F	90	6.3/900	27.5	- 75 - 400V <sup>g</sup>	100	200-375	18.075	180	17.976	14BH		
490EB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200	18.075	180	17.520	14BE		
490EB22A	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200	18.075	180	17.520	14BE		
490FB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200	18.110	180	17.772	14BE		
490GB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	200	200-520	17.637	168	17.520	14BE		
490HB22	SGA	A	90	6.3/900	24.0	16.8 - 20.0	150	325-800	17.638	168	17.913	14BE	22.0	
490JB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	150	290-670	17.637	170	18.504	14BE	23.0	
490JB22A	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.520	14BE		
490KB22	SGA	A	90	6.3/800	23.0	16.8 - 20.0	50-105	200	17.637	168	18.110	14BE		
490KB22A	SGA	A	90	6.3/800	23.0	16.8 - 20.0	50-105	200	17.637	168	18.110	14BE		
490LB22	SGA	A	90	6.3/800	23.0	16.8 - 20.0	50-105	200	17.638	170	17.913	14BE	23.0	
490MB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	18.150	14BE		
490NB22	SGA	D	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	18.346	14BE		
490RB22	SGA	D	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.756	14BE		
490SB22	SGA	D	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.795	14BE		
490TB22	SGA	D	90	6.3/800	23.0	16.8 - 20.0	50-105	200	17.637	168	17.520	14BE		
490UB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.520	14BE		
490VB22	SGA	D	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.756	14BE		

RCA Hi-Lite and Colorama types shown in bold. For footnotes, see page 16.

# Color Picture Tube Characteristics\*

Nom. Tube Diag. ▲	Type No.	Envelope Code ●	Safety Feature ★	Nom. Deflection Angle ◀	Heater Volts/mA	Max. Anode Voltage ▼	Range of Focus Voltage in Volts or % of Anode Voltage	Cutoff Characteristics		Screen Diag. Inches	Screen Area Sq In	Max. Overall Length Inches	Bas-ing	Approx. Tube Weight Pounds
								Neg. G1 Voltage Volts	Range of G2 Voltage Volts					
<b>19</b>	490WB22	SGA	A	90	6.3/900	23.0	16.8 - 20.0	50-105	200			17.520	14BE	22.0
	490XB22	SGA	D	90	6.3/900	23.0	16.8 - 20.0	50-105	200			17.756	14BE	
	490YB22	SGAT	D	90	6.3/900	25.5	16.8 - 20.0	50-105	200	17.755	171	17.756	14BE	
	490ZB22	SGA	D	90	6.3/900	23.0	16.8 - 20.0	50-105	200	17.637	168	17.756	14BE	
	A49-14X	SGA	A	90	6.3/900	23.0	16.8 - 20.0	200	200-520	17.637	168	17.520	14BE	
<b>20V</b>	20VABP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.387	14BE	30.5
	20VADP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.579	14BE	34.0
	20VAEP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.387	14BE	30.5
	<b>20VAGP22<sup>h</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.579	14BE	34.0
	<b>20VAHP22<sup>h</sup></b>	SGA	F	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	20.233	227	19.387	14BH	30.5
	20VAJP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	320-750	20.233	227	19.407	14BE	29.0
	20VAKP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	285-685	20.233	227	19.555	14BE	29.0
	20VALP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	285-685	20.233	227	19.387	14BE	29.0
	20VAMP22	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	300-660	20.233	227	19.579	14BE	
	20VANP22	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	300-660	20.233	227	19.579	14BE	
<b>20</b>	20VARP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	20.233	227	19.579	14BE	34.0
	20VASP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	270-670	20.233	227	19.407	14BE	29.0
	510ELB22	SGA	F	90	6.3/900	27.5					185	18.15		
	510ERB22 <sup>m</sup>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	270-655	18.898	185	18.352	14BE	
<b>21</b>	21AXP22	RMA	A	70	6.3/1800	27.5	15.2 - 21.2	150	310-690	19.062	255	25.312	14W	28.0
	21AXP22A	RMA	A	70	6.3/1800	27.5	15.2 - 21.2	150	310-690	19.062	255	25.312	14AH	28.0
	21CYP22	RGA	A	70	6.3/1800	27.5	16.8 - 20.0	150	310-690	19.250	261	25.406	14AL	36.5
	21CYP22A	RGA	A	70	6.3/1600	27.5	16.8 - 20.0	150	310-690	19.250	261	25.406	14AL	36.5
	21FBP22	RGA	A	70	6.3/1800	27.5	16.8 - 20.0	150	310-690	19.250	267	25.406	14AU	36.5
	21FBP22A	RGA	A	70	6.3/1800	27.5	16.8 - 20.0	150	310-690	19.250	267	25.406	14AU	36.5
	21FJP22	RGAT	D	70	6.3/1800	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0
	21FJP22A	RGAT	D	70	6.3/1800	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0
	21FKP22	RGA	D	70	6.3/1800	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0
	21GFP22	SGAT	D	90	6.3/1350	27.5	16.5 - 20.0	150	300-600	20.178	226	19.769	14BE	
	21GLP22	SGAT	D	90	6.3/1350	27.5	16.5 - 20.0	75	240-480	20.178	226	19.769	14BE	
	21GNP22	SGAT	D	90	6.3/1300	27.5	16.8 - 20.0	150	285-565	20.178	226	19.738	14BE	
	21GRP22	SGAT	D	90	6.3/1350	27.5	16.5 - 20.0	150	340-970	20.178	226	19.612	14BE	
	21GUP22	RGA	A	70	6.3/1900	27.5	16.8 - 20.0	150	310-690	19.250	267	25.406	14AU	36.5
	<b>21GUP22/ 21FBP22A<sup>c</sup></b>	RGA	A	70	6.3/1900	27.5	16.8 - 20.0	150	310-690	19.250	267	25.406	14AU	36.5
	21GVP22	RGAT	D	70	6.3/1900	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0
	<b>21GVP22/ 21FJP22A<sup>c</sup></b>	RGAT	D	70	6.3/1900	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0
	21GWP22	SGAT	D	90	6.3/1350	27.5	16.5 - 20.0	150	300-605	20.178	226	19.769	14BE	
	21GXP22	RGA	D	70	6.3/1900	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0
	21GYP22	RGA	D	70	6.3/1900	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0
21GZP22	RGAT	D	70	6.3/1800	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0	
<b>21V</b>	21HAP22	RGA	D	70	6.3/1900	27.5	16.8 - 20.0	150	310-690	19.250	267	25.594	14AU	41.0
	21HBP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	300-600	20.178	226	19.769	14BE	
	21VABP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.871	226	19.403	14BE	35.5
	21VACP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.871	226	19.211	14BE	31.5
	21VAFP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.871	226	19.211	14BE	31.5
	21VAJP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	20.871	226	19.211	14BE	31.5
	<b>21VAKP22<sup>bm</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.871	226	19.403	14BE	35.5
	<b>21VAMP22<sup>c</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.871	226	19.403	14BE	35.5
	21VAQP22 <sup>m</sup>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	20.871	226	19.211	14BE	31.5
	21VAUP22 <sup>m</sup>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.871	226	19.211	14BE	31.5
<b>21V</b>	21VAYP22 <sup>m</sup>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.871	226	19.403	14BE	35.5
	21VAZP22 <sup>m</sup>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	20.871	226	19.211	14BE	31.5
	<b>21VBEP22<sup>hm</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	250-645	20.871	226	19.211	14BE	33.5
	21VBFP22 <sup>m</sup>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	260-660	20.871	226	19.211	14BE	
	21VBGP22	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	260-660	20.871	226	19.211	14BE	
	21VBHP22 <sup>m</sup>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	260-660	20.871	226	19.211	14BE	
<b>22</b>	<b>21VBKP22<sup>hm</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	250-645	20.871	226	19.211	14BE	33.5
	22ABP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.579	14BE	32.5
	22ADP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	330-665	20.233	227	19.644	14BE	29.0
	22AGP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.387	14BE	29.0
	22AHP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	285-685	20.233	227	19.387	14BE	29.0
	22ALP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	320-750	20.233	227	19.407	14BE	29.0
	22AMP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	20.871	226	19.387	14BE	36.5
	22ANP22	SGA	F	90	6.3/900	22.5	- 75 - 400V <sup>g</sup>	100	150-390	20.233	227	19.387	14BH	29.0
22ARP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.579	14BE	32.5	
<b>22</b>	22ASP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.387	14BE	29.0
	22AVP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.387	14BE	29.0
	22AXP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.871	226	19.387	14BE	
	22AYP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.871	226	19.195	14BE	
	22BCP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.871	226	19.403	14BE	35.5

RCA Hi-Lite and Colorama types shown in bold. For footnotes, see page 16.

# Color Picture Tube Characteristics<sup>†</sup>

Nom. Tube Diag. ▲ Inches	Type No.	Envelope Code ●	Safety Feature ★	Nom. Deflection Angle Degrees	Heater Volts/mA	Max. Anode Voltage ▼ kV	Range of Focus Voltage in Volts or % of Anode Voltage	Cutoff Characteristics		Screen Diag. Inches	Screen Area Sq. In	Max. Overall Length Inches	Bas-ing	Approx. Tube Weight Pounds	
								Neg. G1 Voltage Volts	Range of G2 Voltage Volts						
<b>22</b>	<b>22JP22<sup>c</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.579	14BE	32.5	
	<b>22KP22<sup>c</sup></b>	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.387	14BE	28.0	
	22LP22	SGA	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.579	14BE	32.5	
	22QP22	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	285-560	20.233	227	19.802	14BE		
	22RP22	SGA	A	90	6.3/1350	27.5	16.8 - 20.0	150	285-560	20.233	227	19.614	14BE		
	22SP22	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	300-660	20.233	227	19.579	14BE		
	<b>22UP22<sup>c</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.387	14BE	29.0	
	22XP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	20.233	227	19.387	14BE	29.0	
	22YP22	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	330-665	20.233	227	19.844	14BE		
	550AB22A	SGA	A	90	6.3/900	27.5	4200 - 5000V	100	200-520	20.232		19.111	14BE		
<b>23</b>	23EGP22	SGAT	D	92	6.3/1350	27.5	16.7 - 21.6	100	320-625	22.375	282	20.094	14BE		
	23EGP22A	SGAT	D	92	6.3/1350	27.5	16.7 - 21.6	100	320-625	22.375	282	20.094	14BE		
	<b>23V</b>	23VABP22	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	285-665	22.995	295	21.287	14BE	42.0
		23VACP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	320-740	22.995	295	21.097	14BE	38.0
	23VADP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	38.0	
	23VAGP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.077	14BE	39.5	
	23VAHP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.299	14BE	42.0	
	<b>23VALP22<sup>bm</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.269	14BE	44.0	
	23VAMP22 <sup>m</sup>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.077	14BE	39.5	
	<b>23VANP22<sup>b</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.269	14BE	44.0	
<b>23VAQP22<sup>c</sup></b>	23VARP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.077	14BE	39.5	
	23VARP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.269	14BE	44.0	
	23VASP22 <sup>m</sup>	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	255-655	22.995	295	21.269	14BE	42.0	
	23VATP22 <sup>m</sup>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	250-650	22.995	295	21.299	14BE	42.0	
	23VAUP22 <sup>m</sup>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.269	14BE	44.0	
	23VAWP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.077	14BE	39.5	
	23VAXP22 <sup>m</sup>	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	250-650	22.995	295	21.299	14BE	42.0	
	23VAYP22 <sup>m</sup>	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	250-650	22.995	295	21.107	14BE	38.0	
	23VAZP22 <sup>m</sup>	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	250-650	22.995	295	21.107	14BE	35.0	
	23VBAP22 <sup>m</sup>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	250-650	22.995	295	21.107	14BE	38.0	
<b>23VBCP22</b>	23VBDP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	260-660	22.995	295	21.077	14BE	38.0	
	23VBDP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.077	14BE	38.0	
	23VBEP22	SGAT	D	90	6.3/1300	27.5	17.0 - 20.0	150	340-1000	22.995	295	21.500	14BE	42.0	
	23VBGP22 <sup>m</sup>	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	255-655	22.995	295	21.269	14BE	42.0	
	23VBHP22	SGAT	D	90	6.3/1300	27.5	17 - 20	150	340-1000	22.995	295	21.500	14BE	42.0	
	23VBJP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	38.0	
	23VBNP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	290-660	22.995	295	21.097	14BE	38.0	
	23VBRP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	38.0	
	23VBSP22	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	275-670	22.995	295	21.287	14BE	42.0	
	23VBTP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	260-660	22.995	295	21.097	14BE	38.0	
<b>25</b>	23VBWP22 <sup>m</sup>	SGAT	F	90	6.3/900	27.5	16.8 - 20.0	150	250-650	22.995	295	21.245	14BE	38.0	
	23VBYP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	38.0	
	25ABP22	SGA	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.269	14BE	42.0	
	25ADP22	SGA	F	90	6.3/1300	27.5	17 - 20	150	340-1000	22.995	295	21.295	14BE		
	25AEP22	SGA	A	90	6.3/1350	27.5	16.8 - 20.0	150	330-665	22.995	295	21.335	14BE		
	25AFP22	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	330-665	22.995	295	21.535	14BE		
	25AGP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	37.0	
	25AJP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.077	14BE	38.0	
	25ANP22	SGA	D	90	6.3/1350	27.5	16.8 - 20.0	150	300-660	22.995	295	21.299	14BE		
	25AP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.299	14BE	42.0	
<b>25AP22A</b>	25AP22A/25XP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.299	14BE	42.0	
	25AQP22	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	320-750	22.995	295	21.287	14BE	42.0	
	25ARP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.299	14BE	42.0	
	25ASP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	330-665	22.995	295	21.335	14BE		
	25AWP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	320-750	22.995	295	21.097	14BE		
	25AXP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	38.0	
	25AZP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	285-685	22.995	295	21.077	14BE	38.0	
	25BAP22 <sup>m</sup>	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	290-650	22.995	295	21.299	14BE		
	<b>25BCP22<sup>em</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.269	14BE	42.0	
	25BDP22 <sup>m</sup>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	22.995	295	21.077	14BE	38.0	
25BFP22	SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	320-740	22.995	295	21.097	14BE	38.0		
25BGP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.269	14BE	42.0		
25BHP22	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.077	14BE	38.0		
25BJP22	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.299	14BE	42.0		
25BKP22 <sup>m</sup>	SGA	F	90	6.3/1350	27.5	16.8 - 20	150	290-650	22.295	295	21.077	14BE			
25BMP22	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	330-665	22.995	295	21.535	14BE			
25BP22	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	37.0		
25BP22A	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	37.0		
25BP22A/25YP22	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	37.0		

RCA Hi-Lite and Colorama types shown in bold. For footnotes, see page 16.

# Color Picture Tube Characteristics\*

Nom. Tube Diag.	Type No.	Envelope Code	Safety Feature	Nom. Deflection Angle	Heater	Max. Anode Voltage	Range of Focus Voltage in Volts or % of Anode Voltage	Cutoff Characteristics		Screen Diag.	Screen Area	Max. Overall Length	Bas-ing	Approx. Tube Weight	
								Neg. G1 Voltage	Range of G2 Voltage						
▲ Inches		●	★	Degrees	Volts/mA	kV		Volts	Volts	Inches	Sq. In.	Inches		Pounds	
<b>25</b>	<b>25BRP22</b>	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	360-1000	22.995	295	21.299	14BE	42.0	
	<b>25BSP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	38.0	
	<b>25BVP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.299	14BE	42.0	
	<b>25BWP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.107	14BE	38.0	
	<b>25BXP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.299	14BE	42.0	
	<b>25BZP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.299	14BE	42.0	
	<b>25CBP22</b>	SGAT	D	90	6.3/1300	27.5	17.0 - 20.0	150	340-1000	22.995	295	21.500	14BE	42.0	
	<b>25CP22</b>	SGA	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.299	14BE	42.0	
	<b>25CP22A</b>	SGA	D	90	6.3/800	27.5	16.8 - 20.0	150	285-685	22.995	295	21.299	14BE	42.0	
	<b>25FP22</b>	SGA	A	90	6.3/1300	27.5	14.4 - 17.6	150	360-1000	22.995	295	21.314	14BE	37.0	
	<b>25FP22A</b>	SGA	A	90	6.3/1350	27.5	16.8 - 20.0	150	360-1000	22.995	295	21.314	14BE	37.0	
	<b>25GP22</b>	SGAT	D	90	6.3/1350	27.5	14.4 - 17.6	150	360-1000	22.995	295	21.500	14BE	42.0	
	<b>25GP22A</b>	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	360-1000	22.995	295	21.299	14BE	42.0	
	<b>25RP22</b>	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	20.910	14BE	37.0	
	<b>25SP22</b>	SGAT	D	90	6.3/1300	27.5	17 - 20	150	340-1000	22.995	295	21.500	14BE	42.0	
	<b>25V</b>	<b>25VABP22<sup>cm</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.997	14BE	49.0
		<b>25VACP22<sup>m</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0
		<b>25VADP22<sup>m</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.997	14BE	49.0
		<b>25VAEP22<sup>c</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.997	14BE	49.0
		<b>25VAFP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0
		<b>25VAGP22</b>	SGA	K	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0
		<b>25VAJP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	270-650	24.658	315	21.933	14BE	50.0
<b>25VAKP22</b>		SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	290-660	24.658	315	22.007	14BE	49.0	
<b>25VALP22<sup>m</sup></b>		SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	250-650	24.658	315	22.003	14BE	50.0	
<b>25VAMP22<sup>cm</sup></b>		SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	250-650	24.658	315	21.997	14BE	50.0	
<b>25VAQP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	250-650	24.658	315	21.805	14BE	48.0	
<b>25VARP22</b>		SGA	D	90	6.3/1350	27.5	16.8 - 20.0	150	300-660	24.658	315	22.062	14BE		
<b>25VASP22</b>		SGA	D	90	6.3/1350	27.5	16.8 - 20.0	150	300-660	24.658	315	22.062	14BE		
<b>25VATP22</b>		SGA	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.997	14BE	49.0	
<b>25VAUP22<sup>m</sup></b>		SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	250-640	24.658	315	21.997	14BE		
<b>25VAWP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0	
<b>25VAZP22</b>		SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	270-660	24.658	315	21.832	14BE	47.0	
<b>25VBAP22</b>		SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	250-640	24.658	315	21.997	14BE		
<b>25VBEP22<sup>hm</sup></b>		SGA	K	90	6.3/900	27.5	16.8 - 20.0	150	285-685	24.658	315	21.805	14BE	44.5	
<b>25VBGP22</b>		SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	270-660	24.658	315	21.832	14BE	47.0	
<b>25VBHP22</b>		SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	250-640	24.658	315	21.997	14BE		
<b>25VBKP22</b>		SGA	K	90	6.3/1350	27.5	16.8 - 20.0	150	260-660	24.658	315	21.832	14BE	47.0	
<b>25VBLP22</b>		SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	270-670	24.658	315	22.007	14BE	49.0	
<b>25VBMP22<sup>m</sup></b>		SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.997	14BE	49.0	
<b>25VBNP22</b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0	
<b>25VBQP22<sup>m</sup></b>		SGAT	F	90	6.3/900	27.5	16.8 - 20.0	150	250-640	24.658	315	21.973	14BE	45.0	
<b>25VBRP22<sup>m</sup></b>		SGA	F	90	6.3/1350	27.5	16.8 - 20.0	150	270-665	24.658	315	21.832	14BE	47.0	
<b>25VBTP22<sup>m</sup></b>		SGAT	K	90	6.3/900	27.5	16.8 - 20.0	150	250-640	24.658	315	21.973	14BE	45.0	
<b>25VBUP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0	
<b>25VBWP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0	
<b>25VBXP22</b>		SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	250-630	24.658	315	21.997	14BE		
<b>25VBYP22<sup>m</sup></b>		SGA	K	90	6.3/900	27.5	16.8 - 20.0	150	285-685	24.658	315	21.805	14BE	44.5	
<b>25VBZP22<sup>m</sup></b>		SGAT	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0	
<b>25VCAP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0	
<b>25VCBP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.832	14BE	47.0	
<b>25VCDP22<sup>m</sup></b>		SGA	K	90	6.3/900	27.5	16.8 - 20.0	150	285-685	24.658	315	21.805	14BE	44.5	
<b>25VCEP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0	
<b>25VCFP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	285-685	24.658	315	21.805	14BE	44.5	
<b>25VCGP22<sup>m</sup></b>		SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	24.658	315	21.997	14BE	50.0	
<b>25VCHP22</b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	270-660	24.658	315	21.832	14BE	47.0	
<b>25VCKP22<sup>cm</sup></b>		SGAT	D	90	6.3/900	32.0	16.8 - 20.0	150	250-645	24.658	315	21.997	14BE	54.0	
<b>25VCOMP22<sup>m</sup></b>		SGA	K	90	6.3/900	27.5	16.8 - 20.0	150	285-685	24.658	315	21.805	14BE	44.5	
<b>25VCNP22<sup>m</sup></b>		SGA	F	90	6.3/900	33.0	16.8 - 20.0	150	250-645	24.658	315	21.973	14BE	45.0	
<b>25VCP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.832	14BE	47.0	
<b>25VCRP22</b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	270-660	24.658	315	21.832	14BE	47.0	
<b>25VCUP22<sup>m</sup></b>		SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	250-645	24.658	315	21.805	14BE	50.0	
<b>25VCWP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	50.0	
<b>25VCYP22<sup>m</sup></b>		SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	270-665	24.658	315	21.832	14BE	47.0	
<b>25VCZP22<sup>hm</sup></b>		SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	295-680	24.658	315	21.805	14BE	50.0	
<b>25VDAP22<sup>m</sup></b>		SGAT	D	90	6.3/900	32.0	16.8 - 20.0	150	250-645	24.658	315	21.997	14BE	54.0	
<b>25VDBP22</b>		SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	295-685	24.658	315	21.805	14BE		
<b>25VDEP22<sup>m</sup></b>		SGAT	D	90	6.3/900	32.0	16.8 - 20.0	150	250-645	24.658	315	21.997	14BE	54.0	
<b>25VDFP22<sup>m</sup></b>		SGA	K	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	50.0	
<b>25VDJP22<sup>m</sup></b>		SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	295-685	24.658	315	21.997	14BE		
<b>25VDKP22<sup>m</sup></b>		SGAT	D	90	6.3/900	32.0	16.8 - 20.0	150	295-685	24.658	315	21.997	14BE		

RCA Hi-Lite and Colorama types shown in bold. For footnotes, see page 16.

# Color Picture Tube Characteristics\*

Nom. Tube Diag.	Type No.	Envelope Code	Safety Feature	Nom. Deflection Angle	Heater	Max. Anode Voltage	Range of Focus Voltage in Volts or % of Anode Voltage	Cutoff Characteristics		Screen Diag.	Screen Area	Max. Overall Length	Bas-ing	Approx. Tube Weight
								Neg. G1 Voltage	Range of G2 Voltage					
▲ Inches		●	★	Degrees	Volts/mA	kV		Volts	Volts	Inches	Sq.In	Inches		Pounds
<b>25V</b>	<b>25VDMP22<sup>m</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	295-685	24.658	315	21.805	14BE	50.0
	<b>25VDNP22<sup>m</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	295-685	24.658	315	21.805	14BE	
	<b>25VDSP22</b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	250-645	24.658	315	21.805	14BE	
	<b>25VDWP22<sup>m</sup></b>	SGA	H	90	6.3/900	33.0	16.8 - 20.0	150	245-635	24.658	315	22.065	14BE	
	<b>25VDXP22<sup>hm</sup></b>	SGA	D	90	6.3/900	32.0	16.8 - 20.0	150	250-645	24.658	315	21.997	14BE	
<b>25</b>	<b>25VEHP22<sup>hm</sup></b>	SGA	F	90	6.3/900	32.0	16.8 - 20.0	150	250-645	24.658	315	21.805	14BE	50.0
	<b>25VP22</b>	SGA	D	90	6.3/900	27.5	16.8 - 20.0	150	325-745	23.031	295	20.706	14BE	39.6
	<b>25WP22</b>	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	300-660	22.995	295	21.299	14BE	42.0
	<b>25XP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.269	14BE	42.0
	<b>25XP22/ 25AP22A<sup>c</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.269	14BE	42.0
<b>26</b>	<b>25YP22</b>	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.077	14BE	37.0
	<b>25YP22/ 25BP22A<sup>c</sup></b>	SGA	A	90	6.3/900	27.5	16.8 - 20.0	150	285-685	22.995	295	21.077	14BE	37.0
	<b>25ZP22</b>	SGAT	D	90	6.3/1350	27.5	16.8 - 20.0	150	330-660	22.995	295	21.535	14BE	45.0
	<b>26AP22<sup>m</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.997	14BE	49.0
	<b>26DP22<sup>m</sup></b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0
<b>26</b>	<b>26FP22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.997	14BE	49.0
	<b>26GP22</b>	SGA	F	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0
	<b>26HP22</b>	SGA	K	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.805	14BE	45.0
	<b>26KP22<sup>m</sup></b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	260-660	24.658	315	21.997	14BE	49.0

## Color Test Picture Tubes

<b>18V</b>	<b>1895P22</b>	SGAT	D	90	6.3/900	32.0	16.8 - 20.0	150	260-660	18.075	180	18.423	14BE	28.0
<b>19</b>	<b>1830P22</b>	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	150	285-685	18.075	180	18.423	14BE	24.0

RCA Hi-Lite and Colorama types shown in bold.

## Footnotes for Characteristics Charts

◆ This chart is based on industry-registered picture-tube data, industry standardized and registered bulb data, and manufacturer's published data. It includes data on all picture tubes where RCA has a replacement. Information contained herein has been carefully checked and is believed to be reliable, but no responsibility is assumed for possible inaccuracies.

▲ Outside glass diagonal dimension unless it is followed by a "V"—Minimum screen or viewing diagonal dimension when followed by a "V".

● Envelope Code (All types have spherical faceplate except where noted)

- R — Round
- S — Rectangular
- M — Metal
- G — Glass
- C — Cylindrical faceplate
- A — Aluminized
- T — Treated faceplate

■ A — Automatic focus  
E — Electrostatic focus  
M — Magnetic focus

### ★ Safety Features

- A. Conventional Tube—Requires Safety Window in Receiver
- B. Integral Moulded-Glass Safety Panel (Bi-Panel\*)
- C. Filled Rim (Shelbond†)
- D. Integral Safety Panel (Laminated)
- F. Tension Band Over Formed Rim Bands (Kimcode☆)
- G. Welded Tension Band Over Formed Rim Bands (Pan-O-Ply\*)
- H. Tension Band Over Tape (T-Band)
- J. Welded Tension Band Over Tape (T-Band)
- K. Tension Band Over Formed Rim Bands With Mounting Lugs (Kimcode/Lugs)
- L. Welded Tension Band Over Formed Rim Bands with Mounting Lugs (Pan-O-Ply/Lugs)
- M. Tension Band With Mounting Lugs Over Tape (T-Band Lugs)

▼ Refer to data on specific type to determine rating system (Design-Maximum or Absolute-Maximum).

\* Trademark of RCA, Lancaster, PA 17604.

† Trademark of Corning Glass Works, Corning, NY 14830.

☆ Trademark of Owens-Illinois, Inc., Columbus, OH 58727.

- a. All materials and parts used in the manufacture of RCA Silverama Picture Tubes are new except for the envelope which, prior to reuse, was carefully inspected to meet the standards of the original new envelope.
- b. Both Colorama and HI-LITE versions are available.
- c. Only Colorama versions (prefix C- or CA-) are available. RCA Colorama Picture Tubes contain used materials which, prior to reuse, are carefully inspected to meet RCA's high quality standards.
- g. This type has an einzel lens focus system. Values shown are in volts which do not vary with anode voltage.
- h. Only HI-LITE Versions (prefix H-) are available. RCA HI-LITE Color Picture Tubes contain all New Parts and Materials.
- m. MATRIX Color Picture Tube.
- p. Precision In Line Color Picture Tube.

# Black & White Picture Tube Characteristics\*

Nom. Tube Diag.	Type No.	Envelope Code	Safety Feature	Nom. Deflection Angle	Heater	Focusing Method	Design Max. Anode Voltage	Typical G2 Voltage	Screen Diag.	Screen Area	Max. Overall Length	Bas-ing	Approx. Tube Weight	PM Ion-Trap Magnet Required
▲ Inches		●	★	Degrees	Volts/mA	■	kV	Volts	Inches	Sq. In.	Inches		Pounds	
5V	<b>5VABP4</b>	SGA	A	70	11.0/77	E	15.0	115	5.036	14	7.550	7GR	3.0	No
	<b>8DP4</b>	SG	A	90	6.3/600	E	9.0	200	7.750	36	10.750	12AB		Yes
9	9ACP4	SGA	J	90	12.0/65	E	12.0	100	8.250	37	8.268	7GR	4.0	No
	<b>9AEP4</b>	SGA	H	90	6.3/450	E	15.0	100	8.979	44	8.700	7GR		No
9V	<b>9VABP4</b>	SGA	F	85	6.3/450	E	15.0	140	9.024	44	8.700	7GR	4.0	No
	<b>9VAJP4</b>	SGA	H	90	11.0/140	E	15.0	90	9.00	44	8.700	7GR		No
9	<b>9VAQP4</b>	SGA	J	90	11.0/140	E	15.0	90	9.000	44	8.70	7GR	4.0	No
	<b>9WP4</b>	SGA	G	90	12.0/75	E	12.0	100	8.270	38	8.270	7GR		3.1
9	230AUB4	SGA	J	90	12.0/75	E	12.0	100	8.559	38	8.346	7GR	3.1	No
	230RB4	SGA	G	90	12.0/75	E	12.0	100	8.270	38	8.270	7GR		No
10	230WB4	SGA	H	90	12.0/65	E	12.0	100	8.250	37	8.268	7GR	3.5	No
	10ASP4	SGA	G	90	6.3/450	E	12.0	100	9.000	44	8.700	7GR		No
10	<b>10ATP4</b>	SGA	F	85	6.3/300	E	15.0	140	9.024	44	8.700	7GR	4.0	No
	<b>10AVP4</b>	SGA	F	85	12.0/79	E	15.0	90	9.024	44	8.700	7GR		No
11	<b>11CP4</b>	SGA	A	110	6.3/450	E	15.0	400	10.125	60	9.188	8HR	4.0	No
12	<b>11GP4</b>	SGA	C	110	6.3/450	E	15.0	135	10.188	60	9.188	8HR	5.5	No
	12BFP4	SGA	A	110	4.2/450	E	14.0	300	11.340	71	9.330	7GR		No
12	12CFP4	SGA	G	110	4.2/450	E	14.0	200	11.312	72	9.330	7GR	5.5	No
	12CNP4	SGA	G	110	4.2/450	E	14.0	200	11.340	71	9.530	7GR		No
12	12CNP4A	SGA	G	110	4.2/450	E	14.0	200	11.500	75	9.530	7GR	5.5	No
	12CTP4	SGA	F	110	6.3/450	E	15.0	100	11.625	74	9.021	7GR		No
12	12CTP4A	SGA	J	110	6.3/450	E	15.0	100	11.625	74	9.021	7GR	5.5	No
	12CYP4	SGA	J	110	6.3/450	E	15.0	140	11.625	74	9.021	7GR		No
12	<b>12DEP4</b>	SGA	F	110	6.3/450	E	15.0	100	11.625	74	9.690	7GR	5.5	No
	<b>12DFP4</b>	SGA	H	110	6.3/450	E	15.0	200	11.620	74	9.060	7GR		No
12V	<b>12DKP4</b>	SGA	F	110	6.3/450	E	16.0	140	11.625	74	9.374	7GR	5.5	No
	<b>12DSP4</b>	SGA	H	110	6.3/300	E	15.0	200	11.625	74	9.274	7GR		No
12V	12VAFP4	SGA	G	110	6.3/450	E	15.0	130	11.500	75	9.527	7GR	18.7	No
	<b>12VAGP4</b>	SGA	G	110	6.3/300	E	14.0	200	11.500	75	9.530	7GR		No
12V	12VAMP4	SGA	J	110	6.3/450	E	15.0	130	11.504	75	9.449	7GR	5.5	No
	<b>12VAQP4</b>	SGA	J	110	4.2/450	E	15.0	140	11.500	75	9.53	7GR		No
12	12VAUP4	SGA	J	110	6.3/300	E	15.0	140	11.500	75	9.528	7GR	5.5	No
	<b>12VAWP4</b>	SGA	J	110	6.3/450	E	15.0	130	11.500	75	9.53	7GR		No
12	12VAXP4	SGA	J	110	11.0/82	E	14.0	150	11.500	75	9.53	7GR	6.0	No
	<b>12VBNP4</b>	SGA	H	90	11.0/140	E	15.0	90	11.50	75	11.125	7GR		No
12	12VBUP4	SGA	J	90	11.0/140	E	15.0	90	11.50	75	11.12	7GR	6.0	No
	12VBYP4	SGA	H	90	11.0/140	E	15.0	90	11.50	75	7GR	No		
12	310AVB4	SGA	G	110	4.2/450	E	14.0	200	11.500	75	9.540	7GR	5.5	No
	310EFB4A	SGA	J	110	6.3/300	E	14.0	300	11.500	75	9.45	7GR		No
12	310ENB4	SGA	J	110	6.3/450	E	15.0	140	11.500	75	9.528	7GR	5.5	No
	310ERB4	SGA	J	110	6.3/450	E	15.0	150	11.500	75	9.527	7GR		No
12	310EVB4	SGA	G	110	6.3/450	E	14.0	150	11.500	75	9.528	7GR	5.5	No
	310FCB4	SGA	G	110	6.3/300	E	14.0	200	11.500	75	9.530	7GR		No
12	310FJB4	SGA	F	110	4.2/450	E	16.0	200	11.500	75	9.528	7GR	6.0	No
	A31-265W	SGA	J	110	6.3/450	E	15.0	130	11.504	75	9.449	7GR		No
15V	<b>15VACP4</b>	SGA	H	114	6.3/450	E	20.0	30	14.875	125	10.811	8HR	9.5	No
	16BKP4	SGA	G	114	6.3/450	E	20.0	50	14.875	125	10.500	8HR		9.5
16	16BTP4	SGA	F	114	6.3/450	E	22.0	50	14.875	125	10.812	8HR	9.5	No
	16BHP4	SGA	F	114	6.3/450	E	20.0	30	14.875	125	10.819	8HR		9.5
16	16CHP4A	SGA	J	114	6.3/450	E	20.0	30	14.875	125	10.811	8HR	9.5	No
	16CVP4	SGA	A	114	4.2/450	E	18.0	50	14.640	139	10.706	8HR		8.6
16	16KP4	SG	A	70	6.3/600	M	17.5	250	14.875	139	19.125	12N	16.0	Yes
	16KP4A	SGA	A	70	6.3/600	M	17.5	300	14.875	139	19.125	12N		Yes
16	16QP4	SG	A	70	6.3/600	M	17.5	250	15.000	139	19.146	12D	16.0	Yes
	16RP4	SG	A	70	6.3/600	M	17.5	300	14.875	139	19.125	12N		Yes
16V	16RP4A	SGA	A	70	6.3/600	M	17.5	300	14.875	139	19.125	12N	16.0	Yes
	<b>16RP4B</b>	SGA	A	70	6.3/600	M	17.5	300	14.875	139	19.125	12N		No
16V	16TP4	SG	A	70	6.3/600	M	15.5	300	14.875	139	18.500	12N	16.0	Yes
	16UP4	SG	A	70	6.3/600	M	15.5	300	14.875	139	18.625	12D		Yes
16V	<b>16VAGP4</b>	SGA	H	114	6.3/450	E	20.0	30	16.250	141	11.445	8HR	11.2	No
	16VALP4	SGA	G	114	6.3/450	E	18.0	50	16.250	141	11.460	8HR		13.0
16	16VAQP4	SGA	H	114	6.3/450	E	21.0	50	16.250	141	11.450	8HR	18.0	No
	16VBAP4	SGA	F	114	6.3/450	E	22.0	50	16.250	141	11.562	8HR		No
16	16VBXP4	SGA	H	114	11.0/140	E	22.0	130	16.250	141	11.450	8HR	18.0	No
	<b>16VBYP4</b>	SGA	F	114	11.0/140	E	22.0	130	16.250	141	11.450	8HR		No
16	16XP4	SG	A	70	6.3/600	M	16.5	250	14.875	139	19.125	12D	18.0	Yes
	17AP4	SG	A	70	6.3/600	M	17.5	300	15.562	149	19.000	12N		Yes
17	17BP4	SG	A	70	6.3/600	M	17.5	300	15.562	149	19.625	12D	18.0	Yes
	17BP4A	SG	A	70	6.3/600	M	17.5	300	15.562	149	19.562	12N		Yes
17	17BP4B	SGA	A	70	6.3/600	M	17.5	300	15.562	149	19.562	12N	18.0	Yes
	17BP4C	SGT	A	70	6.3/600	M	17.5	300	15.562	149	19.625	12N		Yes
17	<b>17BP4D</b>	SGA	A	70	6.3/600	M	17.5	300	15.562	149	19.562	12N	18.0	No
	<b>17CFP4</b>	SGA	A	90	6.3/600	E	17.5	300	15.750	155	14.375	12L		10.0
17	17CYP4	SGA	A	90	6.3/600	E	17.5	300	15.750	155	14.375	12L	10.0	No
	17DAP4	SGA	A	110	2.68/450	E	17.5	300	15.750	155	10.875	8JK		10.0



# Black & White Picture Tube Characteristics\*

Nom. Tube Diag.	Type No.	Envelope Code	Safety Feature	Nom. Deflection Angle	Heater	Focus ing Method	Design Max. Anode Voltage	Typical G2 Voltage	Screen Diag.	Screen Area	Max. Overall Length	Bas- ing	Approx. Tube Weight	PM Ion-Trap Magnet Required
▲ Inches		●	★	Degrees	Volts/mA	■	kV	Volts	Inches	Sq. In	Inches		Pounds	
17	<b>17DQP4</b>	SGA	A	110	6.3/450	E	17.5	50	15.750	155	12.375	7FA	10.0	No
	<b>17DRP4</b>	SGA	A	110	2.68/450	E	17.5	300	15.750	155	11.000	8JK	10.0	No
	17EMP4	SGA	F	114	6.3/450	E	22.0	50	16.250	141	11.562	8HR		No
	17EWP4	SGA	G	114	6.3/450	E	20.0	30	16.250	141	11.445	8HR	11.2	No
	17FDP4	SGA	G	114	6.3/450	E	22.0	50	16.250	141	11.460	8HR		No
	17JP4	SG	A	70	6.3/600	M	20.0	300	15.562	149	19.562	12N		Yes
	17LP4	SGC	A	70	6.3/600	E	17.5	300	15.562	149	19.562	12L	19.0	Yes
	17LP4A	SGCA	A	70	6.3/600	E	17.5	300	15.562	149	19.562	12L	19.0	Yes
	<b>17LP4B</b>	SGCA	A	70	6.3/600	E	17.5	300	15.562	149	19.562	12L	19.0	No
	17QP4	SGC	A	70	6.3/600	M	17.5	300	15.562	149	19.562	12N	19.0	Yes
	17QP4A	SGCA	A	70	6.3/600	M	20.0	300	15.562	149	19.562	12N	19.0	Yes
	<b>17QP4B</b>	SGCA	A	70	6.3/600	M	20.0	300	15.562	149	19.562	12N	19.0	No
	17SP4	SGC	A	70	6.3/600	A	15.5	250	15.812		19.562	12P		Yes
	17UP4	SGC	A	70	6.3/600	M	15.5	250	15.562	149	19.562	12N	19.5	Yes
	17VP4	SGC	A	70	6.3/600	E	17.5	300	15.562	149	19.562	12L		Yes
	17VP4B	SGCA	A	70	6.3/600	E	17.5	300	15.562	149	19.562	12L		Yes
	17YP4	SGC	A	70	6.3/600	M	20.0	300	15.562	149	19.562	12N		Yes
440VB4	SGA	G	114	6.3/450	E	20.0	50	16.252	141	11.457	8HR	10.5	No	
18V	<b>18VAUP4</b>	SGA	F	114	6.3/450	E	23.5	30	17.562	172	11.875	8HR	15.0	No
	18VBLP4	SGA	F	114	6.3/450	E	23.0	50	17.562	172	11.630	8HR	15.	No
19	<b>19ABP4</b>	SGA	A	114	2.68/450	E	20.0	300	17.562	172	11.125	8JK	14.0	No
	19ACP4	SGA	A	114	6.3/600	E	20.0	50	17.562	172	12.625	8HR	13.5	No
	19ADP4	SGA	A	114	6.3/600	E	20.0	550	17.562	172	11.875	8HR		No
	<b>19AFP4</b>	SGA	B	114	6.3/600	E	20.0	300	17.625	172	11.938	8HR	18.5	No
	19AGP4	SGA	A	114	6.3/600	E	17.6	300	17.562	172	11.125	8HR		No
	19AHP4	SGA	A	114	6.3/450	E	17.5	500	17.562	172	11.625	8HR	13.5	No
	<b>19AJP4</b>	SGA	A	114	6.3/450	E	20.0	50	17.562	172	11.625	7FA	14.0	No
	19AKP4	SGA	A	114	6.3/600	E	20.0	300	17.562	172	12.625	8HR		No
	19ANP4	SGA	A	114	6.3/450	E	20.0	500	17.562	172	11.062	8JR	14.0	No
	19ARP4	SGA	B	114	6.3/600	E	20.0	300	17.750	174	12.938	8HR	18.5	No
	19ATP4	SGA	B	114	6.3/600	E	20.0	500	17.750	174	11.375	8JR	18.5	No
	19AUP4	SGAT	B	114	6.3/600	E	20.0	300	17.625	172	11.938	8HR	18.5	No
	<b>19AVP4</b>	SGA	A	114	6.3/600	E	23.0	400	17.562	172	11.625	8HR	14.0	No
	19AWP4	SGA	A	114	6.3/450	E	18.0	300	17.562	172	11.125	8HR		No
	19AXP4	SGA	A	114	6.3/450	E	20.0	400	17.562	172	11.625	8HR	14.0	No
	<b>19AYP4</b>	SGA	A	114	6.3/450	E	23.0	400	17.562	172	11.625	8HR	14.0	No
	19AZP4	SGA	A	114	6.3/600	E	17.0	450	17.562	172	11.812	8HR		No
<b>19BDP4</b>	SGA	A	92	6.3/600	E	19.8	50	17.562	172	15.625	12L	15.0	No	
19BHP4	SGA	A	114	6.3/600	E	22.0	450	17.562	172	12.062	8HR		No	
19BLP4	SGA	A	114	6.3/600	E	20.0	400	17.562	172	11.562	8HR		No	
19BMP4	SGA	B	114	6.3/600	E	20.0	400	17.625	172	11.812	8HR		No	
19BRP4	SGA	D	114	6.3/600	E	23.0	300	17.625	172	12.188	8HR	18.0	No	
19BSP4	SGA	A	110	6.3/600	E	20.0	400	17.562	172	12.062	8HR	14.0	No	
19BTP4	SGA	A	114	6.3/600	E	23.0	500	17.562	172	11.062	8JR	14.0	No	
19BVP4	SGA	A	114	6.3/600	E	23.5	500	17.562	172	12.000	8HR	13.5	No	
19BWP4	SGA	A	114	6.3/450	E	23.5	500	17.562	172	11.875	8HR	13.5	No	
19BXP4	SGA	A	110	6.3/450	E	20.0	400	17.562	172	12.062	8HR	14.0	No	
19CAP4	SGA	A	110	6.3/600	E	20.0	500	17.562	172	11.438	8JR	13.5	No	
19CDP4	SGA	A	114	6.3/600	E	19.8	50	17.562	172	11.875	7FA		No	
19CFP4	SGA	A	114	6.3/600	E	17.5	50	17.562	172	11.750	8HR		No	
<b>19CHP4</b>	SGA	A	114	6.3/600	E	20.0	50	17.562	172	11.875	8HR	14.0	No	
19CJP4	SGA	A	114	6.3/600	E	20.0	400	17.562	172	11.562	8HR		No	
19CKP4	SGA	A	114	6.3/600	E	22.0	50	17.562	172	12.000	8HR	14.0	No	
19CLP4	SGA	A	92	6.3/600	E	19.8	35	17.562	172	15.625	12L		No	
<b>19CMP4</b>	SGA	A	114	6.3/450	E	20.0	30	17.562	172	11.875	8HR	14.0	No	
19CMP4A	SGA	A	114	6.3/450	E	23.5	30	17.562	172	11.875	8HR	13.5	No	
19CQP4	SGA	A	114	6.3/600	E	19.8	50	17.562	172	11.875	7FA		No	
19CRP4	SGA	A	92	6.3/600	E	22.0	35	17.562	172	15.625	12L		No	
19CSP4	SGA	A	114	6.3/600	E	20.0	30	17.562	172	11.875	8HR	14.0	No	
19CUP4	SGA	A	114	6.3/450	E	22.0	65	17.562	172	11.875	8HR		No	
<b>19CVP4</b>	SGA	B	114	6.3/450	E	23.0	50	17.625	172	11.938	8HR	18.5	No	
<b>19CXP4</b>	SGA	A	114	6.3/600	E	20.0	45	17.562	172	11.875	7FA	14.0	No	
19CYP4	SGA	A	114	6.3/600	E	23.0	400	17.562	172	11.125	8HR		No	
19CZP4	SGA	D	114	6.3/450	E	23.0	400	17.625	172	11.875	8HR	15.5	No	
19DAP4	SGAT	D	114	6.3/450	E	23.0	400	17.625	172	11.875	8HR	15.5	No	
<b>19DBP4</b>	SGA	D	114	6.3/450	E	19.8	40	17.562	172	12.125	7FA		No	
19DCP4	SGA	F	114	6.3/600	E	20.0	400	17.562	172	11.875	8HR		No	
19DEP4	SGA	A	114	6.3/600	E	22.0	300	17.562	172	12.125	8HR		No	
19DFP4	SGA	A	114	6.3/600	E	22.0	65	17.562	172	11.937	8HR		No	
19DHP4	SGA	F	114	6.3/600	E	20.0	50	17.562	172	11.875	8HR		No	
19DKP4	SGA	D	114	6.3/600	E	23.0	400	17.625	172	11.875	8HR	15.5	No	
19DLP4	SGA	A	114	6.3/600	E	20.0	50	17.562	172	11.875	8HR		No	
19DNP4	SGA	D	114	6.3/600	E	18.0	400	17.625	172	11.875	8HR	15.5	No	
<b>19DQP4</b>	SGA	G	114	6.3/450	E	23.0	300	17.562	172	11.875	8HR	15.0	No	
<b>19DRP4</b>	SGA	G	114	6.3/600	E	23.0	300	17.562	172	11.875	8HR	15.0	No	

RCA Silverama<sup>a</sup> types shown in bold. For footnotes see page 16.

# Black & White Picture Tube Characteristics\*

Nom. Tube Diag. ▲ Inches	Type No.	Envelope Code ●	Safety Feature ★	Nom. Deflection Angle Degrees	Heater Volts/mA	Focus ing Method ■	Design Max. Anode Voltage kV	Typical G2 Voltage Volts	Screen Diag. Inches	Screen Area Sq. In	Max. Overall Length Inches	Bas- ing	Approx. Tube Weight Pounds	PM Ion-Trap Magnet Required
<b>19</b>	<b>19DSP4</b>	SGA	G	114	6.3/600	E	20.0	50	17.562	172	11.875	8HR	15.0	No
	19DTP4	SGA	G	114	6.3/450	E	23.0	500	17.562	172	11.060	8JR	15.0	No
	<b>19DUP4</b>	SGA	F	114	6.3/450	E	22.0	50	17.562	172	11.969	8HR	No	No
	19DWP4	SGA	F	114	6.3/450	E	23.0	400	17.562	172	11.625	8HR	15.0	No
	19DYP4	SGA	B	114	6.3/450	E	23.0	50	17.625	172	11.938	8HR	18.5	No
	19EAP4	SGA	G	114	6.3/450	E	20.0	50	17.562	172	11.875	8HR	15.0	No
	<b>19EBP4</b>	SGA	C	114	6.3/600	E	23.0	400	17.562	172	11.875	8HR	No	No
	19EDP4	SGA	F	114	6.3/600	E	23.0	400	17.562	172	11.875	8HR	15.0	No
	19EFP4	SGA	F	114	6.3/600	E	20.0	50	17.562	172	11.875	8HR	No	No
	<b>19EGP4</b>	SGA	C	114	6.3/450	E	21.0	50	17.562	172	11.875	8HR	No	No
19EHP4	SGA	F	114	6.3/600	E	18.0	400	17.562	172	11.875	8HR	15.0	No	
19EHP4A	SGA	G	114	6.3/600	E	18.0	400	17.562	172	11.875	8HR	15.0	No	
19EJP4	SGA	F	114	6.3/450	E	20.0	30	17.562	172	11.875	8HR	15.0	No	
19EKP4	SGA	C	114	6.3/450	E	19.8	45	17.562	172	11.875	7FA	No	No	
19ELP4	SGA	A	114	6.3/600	E	18.0	400	17.562	172	11.625	8HR	13.5	No	
19EMP4	SGA	C	114	6.3/600	E	20.0	500	17.562	172	11.062	8JR	16.0	No	
19ENP4	SGA	F	114	6.3/450	E	21.0	50	17.562	172	11.875	8HR	No	No	
19ENP4A	SGA	G	114	6.3/450	E	21.0	50	17.562	172	11.875	8HR	15.0	No	
19ERP4	SGA	F	114	6.3/600	E	23.0	400	17.562	172	11.625	8HR	15.0	No	
19ESP4	SGA	F	114	6.3/600	E	20.0	50	17.562	172	11.875	8HR	15.0	No	
19EUP4	SGA	F	114	6.3/600	E	23.0	400	17.562	172	11.875	8HR	No	No	
19EVP4	SGA	F	114	6.3/450	E	23.0	400	17.562	172	11.625	8HR	No	No	
19EWP4	SGA	F	114	6.3/450	E	20.0	400	17.562	172	11.875	8HR	No	No	
<b>19EZP4</b>	SGA	C	114	6.3/450	E	19.8	45	17.562	172	11.875	7FA	15.5	No	
19FBP4	SGA	C	114	6.3/450	E	15.0	50	17.562	172	11.875	8HR	No	No	
19FCP4	SGA	F	114	6.3/450	E	23.0	400	17.562	172	11.875	8HR	15.0	No	
19FCP4A	SGA	G	114	6.3/450	E	23.0	400	17.562	172	11.875	8HR	15.0	No	
19FDP4	SGA	F	114	6.3/450	E	23.0	400	17.562	172	11.625	8HR	15.0	No	
19FEP4	SGA	F	114	6.3/450	E	20.0	30	17.562	172	11.875	8HR	15.0	No	
19FEP4A	SGA	F	114	6.3/450	E	23.5	30	17.562	172	11.875	8HR	15.0	No	
19FEP4B	SGA	G	114	6.3/450	E	23.5	30	17.562	172	11.875	8HR	15.0	No	
19FGP4	SGA	K	114	6.3/600	E	20.0	500	17.562	172	11.063	8JR	16.0	No	
19FJP4	SGA	F	114	6.3/450	E	18.0	400	17.562	172	11.875	8HR	15.0	No	
19FJP4A	SGA	G	114	6.3/450	E	18.0	400	17.562	172	11.875	8HR	15.0	No	
<b>19FLP4</b>	SGA	G	114	6.3/450	E	23.0	300	17.562	172	11.625	8HR	15.0	No	
19FNP4	SGA	L	114	6.3/600	E	23.0	300	17.562	172	11.875	8HR	15.0	No	
19FSP4	SGA	F	114	6.3/450	E	15.0	50	17.562	172	11.875	8HR	No	No	
19FTP4	SGAT	F	114	6.3/450	E	21.0	400	17.562	172	11.750	8HR	No	No	
19FTP4A	SGAT	G	114	6.3/450	E	21.0	400	17.562	172	11.750	8HR	No	No	
19FWP4	SGA	A	114	4.2/450	E	20.0	500	17.562	172	11.656	8HR	13.5	No	
<b>19GAP4</b>	SGA	C	114	6.3/450	E	19.8	400	17.562	172	11.875	8HR	15.5	No	
19GBP4	SGA	D	114	6.3/450	E	23.0	400	17.562	172	11.938	8HR	16.8	No	
19GEP4	SGA	K	114	6.3/450	E	23.0	400	17.562	172	11.875	8HR	15.0	No	
<b>19GEP4A</b>	SGA	L	114	6.3/450	E	23.0	300	17.562	172	11.875	8HR	15.0	No	
19GFP4	SGA	C	114	6.3/450	E	23.0	400	17.562	172	11.900	8HR	No	No	
19GHP4	SGA	F	114	6.3/450	E	22.0	50	17.562	172	11.594	8HR	No	No	
19GJP4	SGA	F	114	6.3/450	E	23.0	400	17.560	172	11.880	8HR	15.0	No	
19GJP4A	SGA	G	114	6.3/450	E	23.0	300	17.562	172	11.875	8HR	15.0	No	
19GMP4	SGA	B	114	6.3/450	E	23.0	50	17.625	172	11.938	8HR	18.5	No	
19GNP4	SGA	C	110	6.3/600	E	23.0	400	17.562	172	12.156	8HR	No	No	
19GRP4	SGA	F	114	6.3/450	E	23.5	500	17.562	172	11.875	8HR	13.5	No	
19GTP4	SGA	F	114	6.3/450	E	23.0	50	17.562	172	11.630	8HR	15.0	No	
<b>19V</b>	<b>19VAHP4</b>	SGA	H	114	6.3/450	E	23.0	30	18.625	184	12.519	8HR	16.5	No
	<b>19VAJP4</b>	SGA	H	114	9.45/300	E	23.0	30	18.625	184	12.519	8HR	16.5	No
	<b>19VALP4</b>	SGA	C	114	6.3/450	E	23.0	300	18.625	184	12.519	8HR	18.0	No
	19VCGP4	SGA	G	114	6.3/450	E	23.0	50	18.625	184	12.520	8HR	16.7	No
	19VCJP4	SGA	G	114	6.3/450	E	23.0	50	18.625	184	12.524	8HR	17.3	No
19VCLP4	SGAT	F	114	6.3/450	E	23.0	50	18.620	184	12.520	8HR	No	No	
19VCOMP4	SGAT	F	114	6.3/450	E	23.0	50	18.620	184	12.520	8HR	No	No	
<b>19</b>	19VDEP4	SGA	K	114	6.3/450	E	23.0	400	18.625	184	12.519	8HR	No	No
<b>19V</b>	<b>19VFEP4</b>	SGA	F	114	11.0/140	E	23.0	130	18.625	184	12.644	8HR	No	No
	19XP4	SGA	A	114	6.3/600	E	20.0	400	17.562	172	11.625	8HR	14.0	No
	19YP4	SGA	A	114	6.3/600	E	20.0	500	17.562	172	11.062	8JR	14.0	No
	19ZP4	SGA	A	114	6.3/600	E	20.0	450	17.562	172	11.812	8JS	No	No
	470ACB4	SGA	A	114	6.3/450	E	20.0	400	17.562	172	11.614	8HR	No	No
470KB4	SGA	K	114	6.3/600	E	20.0	400	17.562		11.85	8HR	No	No	
470NB4	SGA	G	114	6.3/600	E	23.0	400	17.563	172	11.890	8HR	No	No	
470SB4	SGA	G	114	6.3/450	E	23.0	400	17.563	172	11.890	8HR	No	No	
<b>20</b>	20AEP4	SGA	F	114	6.3/450	E	23.5	30	18.625	184	12.519	8HR	20.0	No
	20ALP4	SGA	J	114	9.45/300	E	23.0	30	18.625	184	12.519	8HR	16.5	No
	<b>20RP4</b>	SGA	F	114	6.3/450	E	22.0	50	18.625	184	12.613	8HR	No	No
20SP4	SGA	J	114	6.3/450	E	23.0	30	18.625	184	12.519	8HR	16.5	No	
20UP4	SGA	C	114	6.3/450	E	23.0	400	18.625	184	12.562	8HR	18.0	No	
<b>20V</b>	<b>20VAQP4</b>	SGA	F	114	6.3/450	E	23.5	30	19.625	212	12.937	8HR	19.0	No
	20YP4	SGAT	F	114	6.3/450	E	23.0	50	18.620	184	12.520	8HR	No	No

RCA Silverama<sup>a</sup> types shown in bold. For footnotes see page 16.

# Black & White Picture Tube Characteristics\*

Nom. Tube Diag. ▲ Inches	Type No.	Envelope Code ●	Safety Feature ★	Nom. Deflection Angle Degrees	Heater Volts/mA	Focus ing Method ■	Design Max. Anode Voltage kV	Typical G2 Voltage Volts	Screen Diag. Inches	Screen Area Sq. In	Max. Overall Length Inches	Bas- ing	Approx. Tube Weight Pounds	PM Ion-Trap Magnet Required
<b>20</b> <b>21</b>	20ZP4	SGAT	F	114	6.3/450	E	23.0	50	18.620	184	12.520	8HR		No
	21ACP4	SG	A	90	6.3/600	M	22.0	300	20.250	262	20.375	12N	25.0	Yes
	21ACP4A	SGA	A	90	6.3/600	M	22.0	300	20.250	262	20.375	12N	25.0	Yes
	21AFP4	SG	A	70	6.3/600	E	20.0	300	20.000	248	23.375	12M		Yes
	21ALP4	SG	A	90	6.3/600	E	20.0	300	20.250	262	20.375	12L		Yes
	21ALP4A	SGA	A	90	6.3/600	E	20.0	300	20.250	262	20.375	12L		Yes
	21ALP4B	SGA	A	90	6.3/600	E	22.0	300	20.250	262	20.375	12L		Yes
	21AMP4	SG	A	90	6.3/600	M	20.0	300	20.250	262	20.375	12N	24.0	Yes
	21AMP4A	SGA	A	90	6.3/600	M	20.0	300	20.250	262	20.375	12N	24.0	Yes
	<b>21AMP4B</b>	SGA	A	90	6.3/600	M	20.0	300	20.250	262	20.375	12N	24.0	No
	21ANP4	SG	A	90	6.3/600	E	20.0	300	20.250	262	20.438	12M		Yes
	21ANP4A	SGA	A	90	6.3/600	E	20.0	300	20.250	262	20.438	12M		Yes
	21AQP4	SG	A	90	6.3/600	M	20.0	300	20.250	262	20.438	12D	24.0	Yes
	21AQP4A	SGA	A	90	6.3/600	M	20.0	300	20.250	262	20.438	12D	24.0	Yes
	21ARP4	SG	A	70	6.3/600	M	22.0	300	20.000	248	23.219	12N	25.0	No
	21ARP4A	SGA	A	70	6.3/600	M	22.0	300	20.000	248	23.219	12N	25.0	No
	21ASP4	SG	A	70	6.3/600	E	20.0	300	19.500	224	22.812	12M		Yes
	21ATP4	SGA	A	90	6.3/600	E	20.0	300	20.250	262	20.375	12L		Yes
	21ATP4A	SGA	A	90	6.3/600	E	22.0	300	20.250	262	20.375	12L		Yes
	21ATP4B	SG	A	90	6.3/600	E	20.0	300	20.250	262	20.375	12L		Yes
	21AUP4	SG	A	72	6.3/600	E	20.0	300	20.250	262	23.406	12L		Yes
	21AUP4A	SGA	A	72	6.3/600	E	20.0	300	20.250	262	23.406	12L		Yes
	21AUP4B	SGA	A	72	6.3/600	E	22.0	300	20.250	262	23.406	12L		Yes
	21AUP4C	SGA	A	72	6.3/600	E	22.0	300	20.250	262	23.406	12L	24.0	No
	21AVP4	SG	A	72	6.3/600	E	20.0	300	20.250	262	23.406	12L		Yes
	21AVP4A	SGA	A	72	6.3/600	E	20.0	300	20.250	262	23.406	12L		Yes
	21AVP4B	SGA	A	72	6.3/600	E	22.0	300	20.250	262	23.406	12L	24.0	Yes
	<b>21AVP4C</b>	SGA	A	72	6.3/600	E	22.0	300	20.250	262	23.406	12L	24.0	No
	21AWP4	SGA	A	72	6.3/600	M	20.0	300	20.250	262	23.406	12N	24.0	Yes
	<b>21AWP4A</b>	SGA	A	72	6.3/600	M	20.0	400	20.250	262	23.406	12N	24.0	No
	21AYP4	SG	A	70	6.3/600	E	20.0	300	19.500	224	22.812	12L		Yes
	21BAP4	SGA	A	90	6.3/600	E	22.0	300	20.250	262	20.375	12L	25.0	No
	21BCP4	SGA	A	70	6.3/600	E	22.0	300	20.250	262	23.406	12L	25.0	No
	21BDP4	SGA	A	72	6.3/600	E	22.0	300	20.250	262	23.406	12L	27.0	No
	21BNP4	SGA	A	90	6.3/600	E	22.0	300	20.250	262	20.375	12L	25.0	No
	21BSP4	SGA	A	90	6.3/600	M	22.0	300	20.250	262	20.375	12N		Yes
	21BTP4	SGA	A	90	6.3/600	E	22.0	300	20.250	262	20.375	12L		Yes
	21CBP4	SGA	A	90	6.3/600	E	20.0	300	20.250	262	18.375	12L		No
	<b>21CBP4A</b>	SGA	A	90	6.3/600	E	22.0	300	20.250	262	18.375	12L	24.0	No
	21CBP4B	SGA	A	90	6.3/600	E	22.0	300	20.250	262	18.375	12L		No
	21CEP4	SGA	A	110	6.3/600	E	20.0	400	20.250	262	14.750	8HR	23.0	No
	21CEP4A	SGA	A	110	6.3/600	E	22.0	400	20.250	262	14.750	8HR	23.0	No
	21CMP4	SGA	A	90	6.3/600	E	22.0	300	20.250	262	19.375	12L		Yes
	<b>21CQP4</b>	SGA	A	110	6.3/600	E	20.0	300	20.250	262	14.812	7FA	20.0	No
	21CUP4	SGA	A	90	6.3/600	M	22.0	300	20.250	262	20.375	12N		Yes
	21CVP4	SGA	A	90	6.3/600	E	22.0	300	20.250	262	20.375	12L		No
	21CWP4	SGA	A	90	6.3/600	E	22.0	300	20.250	262	20.375	12L		Yes
	21CXP4	SGA	A	90	6.3/600	E	22.0	50	20.250	262	18.375	12L		No
	21CZP4	SGA	A	110	6.3/600	E	20.0	300	20.250	262	15.188	8HR	22.0	Yes
	21DAP4	SGA	A	110	6.3/600	E	20.0	400	20.250	262	15.000	8HR	20.0	No
	21DEP4	SGA	A	110	6.3/600	E	20.0	300	20.250	262	15.125	8HR		No
	21DEP4A	SGA	A	110	6.3/600	E	22.0	400	20.250	262	15.000	8HR	20.0	No
	21DFP4	SGA	A	110	6.3/600	E	20.0	400	20.250	262	14.750	8HR	23.0	No
	<b>21DLP4</b>	SGA	A	90	6.3/600	E	22.0	300	20.250	262	17.375	12L	24.0	No
	21DMP4	SGA	A	110	6.3/600	E	22.0	400	20.250	262	14.062	8HR	20.0	No
	21DNP4	SGA	A	90	6.3/600	E	22.0	300	20.250	262	19.375	12L		Yes
	21DQP4	SGA	A	90	6.3/600	E	20.0	300	20.250	262	17.500	12L	22.5	No
	21DRP4	SGA	A	90	6.3/600	E	22.0	300	20.250	262	18.625	12L		No
	<b>21DSP4</b>	SGA	A	90	6.3/600	E	22.0	50	20.250	262	18.375	12L	24.0	No
	21EAP4	SGA	A	110	2.35/600	E	20.0	300	20.250	262	13.188	8JK		No
	21EDP4	SGA	A	110	6.3/600	M	20.0	400	20.250	262	13.750	8HR	23.0	No
	21EMP4	SGA	A	110	6.3/600	E	20.0	450	20.250	262	13.562	8HR	23.0	No
	<b>21EMP4/</b> <b>21EQP4</b>	SGA	A	110	6.3/600	E	20.0	500	20.250	262	13.440	8HR	23.0	No
	21EP4	SGC	A	70	6.3/600	M	20.0	300			23.375	12D	29.0	Yes
	21EP4A	SGC	A	70	6.3/600	M	20.0	300			23.375	12N	29.0	Yes
	21EP4B	SGCA	A	70	6.3/600	M	20.0	300	20.000	248	23.375	12N	30.5	Yes
	<b>21EP4C</b>	SGCA	A	70	6.3/600	M	20.0	300	20.000	248	23.406	12N	29.0	No
	21EQP4	SGA	A	110	6.3/600	E	20.0	500	20.250	262	12.875	8JR	23.0	No
	21ESP4	SGA	A	110	6.3/600	E	20.0	450	20.250	262	13.625	8JS	20.0	No
	21ETP4	SGA	A	110	6.3/600	E	20.0	450	20.250	262	12.063	8JR		No
	21EVP4	SGA	A	110	2.68/450	E	20.0	300	20.250	262	13.188	8JK	20.0	No
	21FAP4	SGA	A	110	6.3/600	E	22.0	500	20.250	262	13.125	8JR	20.0	No
	<b>21FDP4</b>	SGA	A	110	6.3/600	E	20.0	300	20.250	262	13.375	8KW	20.0	No
	21FLP4	SGA	A	90	6.3/600	E	22.0	300	20.250	262	18.375	12L		No
	21FP4	SGC	A	70	6.3/600	E	20.0	300	20.000	248	23.406	12M	29.0	Yes

# Black & White Picture Tube Characteristics\*

Nom. Tube Diag. ▲ Inches	Type No.	Envelope Code ●	Safety Feature ★	Nom. Deflection Angle Degrees	Heater Volts/mA	Focusing Method ■	Design Max. Anode Voltage kV	Typical G2 Voltage Volts	Screen Diag. Inches	Screen Area Sq. In	Max. Overall Length Inches	Bas-ing	Approx. Tube Weight Pounds	PM Ion-Trap Magnet Required
21	21FP4A	SGC	A	70	6.3/600	E	20.0	300	20.000	248	23.406	12L	29.0	Yes
	21FP4C	SGCA	A	70	6.3/600	E	20.0	300	20.000	248	23.406	12L	29.0	Yes
	<b>21FP4D</b>	SGCA	A	70	6.3/600	E	20.0	300	20.000	248	23.406	12L	29.0	No
	<b>21FVP4</b>	SGA	G	114	6.3/450	E	23.0	400	19.625	212	12.937	8HR	19.0	No
	21FWP4	SGA	F	114	6.3/450	E	23.0	400	19.625	212	12.937	8HR	19.0	No
	21FZP4	SGA	F	114	6.3/450	E	23.0	400	19.625	212	12.937	8HR		No
	21GAP4	SGA	F	114	6.3/450	E	23.5	30	19.625	212	12.937	8HR		No
	<b>21GAP4A</b>	SGA	G	114	6.3/450	E	23.5	30	19.625	212	12.937	8HR	19.0	No
	21JP4	SGC	A	70	6.3/600	M	22.0	300	20.125		23.406	12N	28.0	No
	21JP4A	SGCA	A	70	6.3/600	M	22.0	300	20.000	248	23.406	12N	28.0	No
	21KP4	SGC	A	70	6.3/600	A	20.0	300	20.125		23.250	12P	32.0	Yes
	21KP4A	SGC	A	70	6.3/600	A	20.0	300	20.125		23.000	12P		Yes
	21MP4	SMT	A	70	6.3/600	E	17.5	300	19.125		22.625	12M	18.0	Yes
	21WP4	SG	A	70	6.3/600	M	20.0	300	19.500	224	22.812	12N	24.0	Yes
	21WP4A	SGA	A	70	6.3/600	M	20.0	300	19.500	224	22.812	12N	24.0	Yes
	<b>21WP4B</b>	SGA	A	70	6.3/600	M	20.0	300	19.250	224	22.812	12N	24.0	No
	21XP4	SG	A	70	6.3/600	E	20.0	300	19.500	224	22.812	12L		Yes
	21XP4A	SGA	A	70	6.3/600	E	20.0	300	19.500	224	22.812	12L	24.0	Yes
	<b>21XP4B</b>	SGA	A	70	6.3/600	E	20.0	300	19.250	224	22.812	12L	24.0	No
	21YP4	SG	A	70	6.3/600	E	20.0	300	20.000	248	23.406	12L		Yes
	21YP4A	SGA	A	70	6.3/600	E	20.0	300	20.000	248	23.406	12L	24.0	Yes
<b>21YP4B</b>	SGA	A	70	6.3/600	E	20.0	300	20.000	248	23.406	12L	24.0	No	
21ZP4	SG	A	70	6.3/600	M	20.0	300	20.000	248	23.406	12D		Yes	
21ZP4A	SG	A	70	6.3/600	M	20.0	300	20.000	248	23.406	12N		Yes	
21ZP4B	SGA	A	70	6.3/600	M	20.0	300	20.000	248	23.406	12N	25.0	Yes	
22V	<b>21ZP4C</b>	SGA	A	70	6.3/600	M	20.0	300	20.000	248	23.406	12N	24.0	No
	<b>22VABP4</b>	SGA	F	110	6.3/450	E	23.5	30	22.312	282	14.406	8HR	28.0	No
	<b>22VACP4</b>	SGAT	D	110	6.3/450	E	23.0	30	22.312	282	14.594	8HR	32.5	No
	<b>22VADP4</b>	SGA	C	92	6.3/450	E	25.0	400	22.312	282	18.375	12L	29.0	No
	<b>22VAEP4</b>	SGA	K	110	6.3/450	E	23.0	300	22.312	282	15.156	8HR	28.5	No
	22VARP4	SGA	F	110	6.3/450	E	22.0	50	22.312	282	14.781	8HR		No
23	22VASP4	SGA	F	110	6.3/450	E	23.5	50	22.312	282	15.188	8HR	28.	No
	23ACP4	SGA	B	90	6.3/600	E	18.0	300	22.312	282	19.781	12L	35.0	No
	23AFP4	SGA	B	92	6.3/600	E	25.0	300	22.312	282	19.250	12L	34.5	No
	23AGP4	SGA	B	114	6.3/600	E	22.0	300	22.225	278	14.062	8HR		No
	23AHP4	SGA	A	92	6.3/600	E	22.0	400	22.312	282	18.375	12L	25.0	No
	<b>23AHP4/23ASP4</b>	SGA	A	92	6.3/600	E	22.0	400	22.312	282	17.875	12L	25.0	No
	23AKP4	SGA	A	114	6.3/600	E	22.0	500	22.312	282	13.125	8JR	25.0	No
	23ALP4	SGA	A	114	6.3/450	E	22.0	400	22.312	282	14.812	8HR	24.0	No
	23ANP4	SGA	B	92	6.3/600	E	25.0	50	22.312	282	18.875	12L		No
	<b>23ARP4</b>	SGA	A	110	6.3/600	E	22.0	400	22.312	282	15.156	8HR	25.0	No
	23ASP4	SGA	A	92	6.3/600	E	22.0	400	22.312	282	17.375	12L	25.0	No
	23ATP4	SGAT	B	92	6.3/600	E	25.0	50	22.312	282	18.875	12L		No
	23AUP4	SGA	A	92	6.3/600	E	25.0	400	22.312	282	18.375	12L	25.0	No
	23AVP4	SGAT	B	110	6.3/600	E	22.0	300	22.312	282	15.562	8HR	32.5	No
	23AWP4	SGA	A	92	6.3/600	E	22.0	50	22.312	282	18.375	12L	25.0	No
	23BAP4	SGAT	B	110	6.3/600	E	22.0	450	22.312	282	14.812	8HR	31.0	No
	23BDP4	SGAT	B	92	6.3/600	E	22.0	500	22.312	282	18.750	12L	34.5	No
	23BFP4	SGA	A	114	6.3/600	E	22.0	450	17.562	172	14.062	8HR		No
	<b>23BGP4</b>	SGA	B	110	6.3/600	E	22.0	50	22.312	282	15.562	8HR	33.0	No
	23BHP4	SGAT	B	110	6.3/600	E	22.0	50	22.312	282	15.562	8HR	32.5	No
	<b>23BJP4</b>	SGA	A	92	6.3/600	E	25.0	50	22.312	282	18.500	12L	25.0	No
<b>23BKP4</b>	SGA	B	92	6.3/600	E	25.0	50	22.312	282	18.875	12L	35.0	No	
23BLP4	SGAT	B	92	6.3/600	E	25.0	50	22.312	282	18.875	12L	35.0	No	
23BMP4	SGA	B	92	6.3/600	E	22.0	300	22.312	282	18.750	12L	34.5	No	
23BNP4	SGA	B	110	6.3/600	E	22.0	400	22.312	282	15.562	8HR		No	
23BP4	SGA	B	110	6.3/600	E	22.0	450	22.312	282	14.812	8HR	31.0	No	
<b>23BQP4</b>	SGA	B	110	6.3/450	E	23.0	300	22.312	282	15.562	8HR	33.0	No	
23BTP4	SGA	B	92	6.3/600	E	25.0	300	22.312	282	18.750	12L	34.5	No	
23BVP4	SGA	B	92	6.3/600	E	25.0	300	22.312	282	19.250	12L		No	
23BWP4	SGAT	B	92	6.3/600	E	25.0	300	22.312	282	19.250	12L		No	
23BXP4	SGA	D	92	6.3/600	E	22.0	300	22.312	282	18.500	12L		No	
23BZP4	SGA	A	92	8.4/450	E	22.0	400	22.312	282	18.375	12L	25.0	No	
23CBP4	SGAT	B	110	6.3/450	E	23.0	300	22.312	282	15.562	8HR	33.0	No	
23CEP4	SGA	A	110	6.3/450	E	22.0	300	22.312	282	15.156	8HR	24.0	No	
<b>23CGP4</b>	SGA	A	92	6.3/450	E	22.0	500	22.312	282	18.375	12L	25.0	No	
23CP4	SGA	B	110	6.3/600	E	22.0	400	22.312	282	15.562	8HR	33.0	No	
<b>23CP4A</b>	SGA	B	110	6.3/600	E	23.5	300	22.312	282	15.562	8HR	32.5	No	
<b>23CQP4</b>	SGA	A	114	6.3/450	E	23.5	500	22.312	282	14.000	8HR	24.0	No	
23CUP4	SGAT	B	110	6.3/600	E	22.0	500	22.312	282	14.000	8JR	32.5	No	
23CZP4	SGA	A	92	6.3/600	E	25.0	300	22.312	282	18.875	12L	27.0	No	
<b>23DAP4</b>	SGA	A	94	6.3/600	E	23.0	50	22.312	282	17.391	8HR	27.0	No	
<b>23DBP4</b>	SGA	A	110	6.3/600	E	22.0	50	22.312	282	15.156	8HR	25.0	No	
23DKP4	SGA	F	92	6.3/600	E	22.0	300	22.312	282	18.375	12L	29.0	No	
23DLP4	SGA	F	92	6.3/600	E	22.0	50	22.312	282	18.375	12L	30.0	No	

RCA Silverama<sup>a</sup> types shown in bold. For footnotes see page 16.

# Black & White Picture Tube Characteristics\*

Nom. Tube Diag. ▲ Inches	Type No.	Envelope Code ●	Safety Feature ★	Nom. Deflection Angle Degrees	Heater Volts/mA	Focus ing Method ■	Design Max. Anode Voltage kV	Typical G2 Voltage Volts	Screen Diag. Inches	Screen Area Sq.In	Max. Overall Length Inches	Bas- ing	Approx. Tube Weight Pounds	PM Ion-Trap Magnet Required
<b>23</b>	23DLP4A	SGA	F	92	6.3/600	E	22.0	50	22.312	282	18.375	12L	30.0	No
	23DNP4	SGA	B	92	6.3/600	E	25.0	35	22.312	282	18.875	12L		No
	23DP4	SGA	B	110	6.3/600	E	22.0	500	22.312	282	14.000	8JR	32.5	No
	23DQP4	SGA	B	92	6.3/600	E	25.0	65	22.312	282	19.062	8HR		No
	23DSP4	SGA	F	92	6.3/600	E	25.0	65	22.312	282	18.688	8HR		No
	23DSP4A	SGA	F	92	6.3/600	E	25.0	65	22.312	282	18.688	8HR		No
	23DTP4	SGA	F	92	6.3/600	E	25.0	300	22.312	282	18.875	12L	29.0	No
	23DXP4	SGA	B	110	6.3/600	E	22.0	300	22.312	282	15.562	8HR		No
	23DYP4	SGA	F	110	6.3/600	E	22.0	300	22.312	282	15.188	8HR		No
	23DZP4	SGA	F	114	6.3/450	E	22.0	400	22.312	282	14.750	8HR	28.0	No
	23ECP4	SGA	D	92	6.3/600	E	25.0	35	22.312	282	18.750	12L		No
	23EDP4	SGA	D	92	6.3/600	E	25.0	300	22.312	282	18.625	12L		No
	23EHP4	SGA	F	92	8.4/450	E	22.0	300	22.312	282	18.375	12L	29.0	No
	<b>23EKP4</b>	SGA	G	92	6.3/450	E	25.0	400	22.312	282	18.375	12L	29.0	No
	23ELP4	SGA	G	92	6.3/600	E	25.0	400	22.312	282	18.375	12L	29.0	No
	23EMP4	SGA	G	92	6.3/600	E	25.0	400	22.312	282	17.380	12L	29.0	No
<b>23ENP4</b>	SGA	G	92	6.3/600	E	25.0	50	22.312	282	18.500	12L	29.0	No	
<b>23EP4</b>	SGA	B	110	6.3/600	E	22.0	50	22.312	282	15.562	8KP	33.0	No	
23EQP4	SGA	G	114	6.3/450	E	23.0	300	22.312	282	14.812	8HR	25.0	No	
23ESP4	SGAT	F	110	6.3/450	E	22.0	300	22.312	282	15.188	8HR		No	
<b>23ETP4</b>	SGA	G	110	6.3/600	E	23.0	300	22.312	282	15.156	8HR	25.0	No	
23EWP4	SGA	F	114	6.3/450	E	22.0	400	22.312	282	14.750	8HR	28.0	No	
<b>23EWP4A</b>	SGA	F	114	6.3/450	E	22.0	400	22.312	282	14.812	8HR	28.0	No	
<b>23EYP4</b>	SGA	C	92	6.3/600	E	25.0	35	22.312	282	18.500	12L		No	
<b>23EZP4</b>	SGA	K	94	6.3/450	E	23.5	50	22.312	282	17.390	8HR	30.0	No	
23FBP4	SGAT	G	92	6.3/600	E	25.0	50	22.312	282	18.500	12L	29.0	No	
23FCP4	SGA	F	110	6.3/450	E	22.0	50	22.312	282	15.188	8HR		No	
23FDP4	SGA	G	110	6.3/450	E	23.0	50	22.312	282	15.156	8HR	28.0	No	
23FEP4	SGA	F	92	6.3/600	E	25.0	50	22.312	282	18.500	12L	29.0	No	
23FHP4	SGA	F	110	6.3/450	E	23.5	50	22.312	282	15.188	8HR	28.0	No	
23FJP4	SGA	F	110	6.3/600	E	22.0	300	22.312	282	15.188	8HR		No	
23FLP4	SGA	F	92	6.3/450	E	25.0	400	22.312	282	18.375	12L		No	
23FMP4	SGA	G	110	6.3/450	E	23.0	300	22.312	282	15.156	8HR	25.0	No	
23FNP4	SGA	C	92	6.3/450	E	25.0	300	22.312	282	18.375	12L		No	
23FP4	SGA	A	114	6.3/600	E	22.0	500	22.312	282	14.000	8HR		No	
<b>23FP4A</b>	SGA	A	114	6.3/600	E	23.5	500	22.312	282	14.062	8HR	24.0	No	
<b>23FRP4</b>	SGA	C	110	6.3/450	E	23.0	50	22.312	282	14.500	8HR		No	
<b>23FSP4</b>	SGA	C	110	6.3/600	E	23.0	400	22.312	282	15.125	8HR		No	
23FVP4	SGA	F	110	6.3/450	E	22.0	300	22.312	282	15.188	8HR		No	
23FVP4A	SGA	F	110	6.3/450	E	22.0	300	22.312	282	15.188	8HR		No	
23FVP4B	SGA	G	110	6.3/450	E	22.0	300	22.312	282	15.188	8HR		No	
23FZP4	SGA	K	110	6.3/600	E	22.0	300	22.312	282	15.156	8HR		No	
23GBP4	SGA	F	110	6.3/450	E	23.0	400	22.312	282	15.156	8HR		No	
23GEP4	SGAT	F	92	6.3/600	E	25.0	50	22.312	282	18.500	12L	29.0	No	
23GFP4	SGA	K	110	6.3/600	E	22.0	300	22.312	282	15.156	8HR		No	
23GJP4	SGA	F	110	6.3/450	E	22.0	50	22.312	282	14.531	8HR		No	
23GJP4A	SGA	G	110	6.3/450	E	23.0	50	22.312	282	14.531	8HR	28.0	No	
23GP4	SGA	B	110	6.3/600	E	22.0	300	22.312	282	15.562	8HR	33.0	No	
23GSP4	SGA	L	110	6.3/600	E	23.0	300	22.312	282	15.156	8HR	28.0	No	
23GTP4	SGA	F	110	6.3/600	E	23.0	300	22.312	282	15.156	8HR	27.5	No	
23GUP4	SGA	L	110	6.3/450	E	23.0	50	22.312	282	15.156	8HR	28.0	No	
23GVP4	SGA	F	114	6.3/450	E	22.0	45	22.312	282	14.812	8HR	28.0	No	
<b>23GWP4</b>	SGA	F	110	6.3/450	E	22.0	50	22.312	282	14.781	8HR		No	
23GXP4	SGA	K	110	6.3/600	E	23.0	300	22.312	282	15.156	8HR		No	
23GZP4	SGAT	D	92	6.3/600	E	25.0	250	22.312	282	18.625	12L		No	
23HFP4	SGA	F	110	6.3/450	E	23.0	400	22.310	282	15.150	8HR		No	
<b>23HFP4A</b>	SGA	G	110	6.3/450	E	23.0	300	22.312	282	15.156	8HR	28.0	No	
23HGP4	SGA	L	110	6.3/450	E	23.0	300	22.312	282	15.156	8HR	28.5	No	
23HLP4	SGA	K	110	6.3/600	E	23.0	300	22.312	282	15.156	8HR	28.0	No	
23HP4	SGA	B	110	6.3/600	E	20.0	300	22.312	282	15.875	8HR		No	
23HQP4	SGA	K	110	6.3/450	E	23.0	400	22.312	282	15.130	8HR		No	
23HQP4A	SGA	L	110	6.3/450	E	23.0	400	22.312	282	15.130	8HR		No	
23HRP4	SGA	K	110	6.3/450	E	23.5	30	22.312	282	14.656	8HR		No	
23HSP4	SGA	K	110	6.3/450	E	23.5	30	22.312	282	14.656	8HR		No	
23HUP4	SGA	F	110	6.3/450	E	23.5	30	22.312	282	14.406	8HR	28.0	No	
23HUP4A	SGA	G	110	6.3/450	E	23.5	30	22.312	282	14.406	8HR	28.0	No	
23HWP4	SGA	K	110	6.3/450	E	22.0	50	22.312	282	15.156	8HR	27.5	No	
<b>23HWP4A</b>	SGA	L	110	6.3/450	E	22.0	50	22.312	282	15.156	8HR	28.0	No	
23HXP4	SGAT	G	110	6.3/450	E	23.0	300	22.312	282	15.156	8HR	28.0	No	
23HYP4	SGA	C	110	6.3/450	E	23.0	400	22.312	282	15.125	8HR		No	
23JAP4	SGA	F	110	6.3/450	E	22.0	50	22.312	282	14.500	8HR		No	
23JBP4	SGA	C	110	6.3/600	E	23.0	400	22.312	282	14.400	8HR		No	
<b>23JEP4</b>	SGA	K	110	6.3/450	E	23.0	300	22.312	282	15.156	8HR	27.5	No	
23JEP4A	SGA	L	110	6.3/450	E	23.0	300	22.312	282	15.156	8HR	27.5	No	
23JGP4	SGA	L	110	6.3/450	E	23.5	30	22.312	282	15.156	8HR		No	

RCA Silverama<sup>a</sup> types shown in bold. For footnotes see page 16.

# Black & White Picture Tube Characteristics<sup>a</sup>

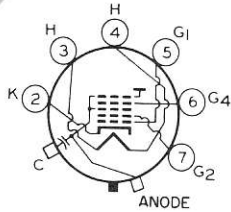
Nom. Tube Diag. ▲ Inches	Type No.	Envelope Code ●	Safety Feature ★	Nom. Deflection Angle Degrees	Heater Volts/mA	Focusing Method ■	Design Max. Anode Voltage kV	Typical G2 Voltage Volts	Screen Diag. Inches	Screen Area Sq.In	Max. Overall Length Inches	Basing	Approx. Tube Weight Pounds	PM Ion-Trap Magnet Required
23	23JHP4	SGAT	F	110	6.3/450	E	23.0	400	22.312	282	15.156	8HR		No
	23JLP4	SGAT	G	110	6.3/450	E	23.5	30	22.312	282	14.406	8HR	28.0	No
	<b>23JP4</b>	SGA	B	110	6.3/450	E	22.0	50	22.312	282	15.875	7FA	33.0	No
	23JRP4	SGAT	D	110	6.3/450	E	23.0	30	22.312	282	14.594	8HR	32.5	No
	23KP4	SGA	A	114	6.3/600	E	20.0	450	22.062	278	13.812	8JS		No
	23KP4A	SGA	A	114	6.3/600	E	22.0	450	22.062	278	13.812	8JS		No
	23LP4	SGA	D	110	6.3/600	E	22.0	300	22.312	282		8HR		No
	23MP4	SGA	A	114	6.3/600	E	22.0	400	22.312	282	14.812	8HR	24.0	No
	23MP4A	SGA	A	114	6.3/600	E	23.5	400	22.312	282	14.812	8HR	24.0	No
	<b>23NP4</b>	SGA	A	114	6.3/600	E	22.0	50	22.312	282	14.812	8HR	24.0	No
24	23QP4	SGA	B	110	6.3/600	E	22.0	400	22.312	282	15.562	8KP		
	23TP4	SGA	B	90	6.3/600	E	22.0	300	22.312	282	19.719	12L		No
	23UP4	SGA	B	110	6.3/450	E	18.0	300	22.312	282	15.562	8HR	32.5	No
	23WP4	SGA	A	114	6.3/600	E	20.0	300	22.250	276	14.938	8HR	24.0	No
	23XP4	SGA	B	92	6.3/600	E	18.0	300	22.312	282	18.750	12L	34.5	No
	<b>23YP4</b>	SGA	B	92	6.3/600	E	22.0	300	22.312	282	18.750	12L	35.0	No
	590RB4	SGA	F	110	6.3/600	E	22.0	400	22.312		14.42	8HR		No
	24ADP4	SGA	A	90	6.3/600	M	24.2	300	22.812	332	21.500	12N		Yes
	<b>24AEP4</b>	SGA	A	90	6.3/600	E	22.0	300	22.812	332	19.500	12L	32.5	No
	<b>24AHP4</b>	SGA	A	110	6.3/600	E	22.0	400	22.812	332	16.188	8HR	26.5	No
24	24ALP4	SGA	A	110	6.3/600	E	22.0	300	22.812	332	16.250	8HR	27.0	No
	24ANP4	SGA	A	90	6.3/600	E	22.0	300	22.812	332	20.125	12L		Yes
	24BEP4	SGA	A	110	6.3/600	E	20.0	400	22.812	332	15.125	8KW	26.5	No
	24CP4	SG	A	90	6.3/600	M	22.0	300	22.812	332	21.500	12N		Yes
	24CP4A	SGA	A	90	6.3/600	M	22.0	300	22.812	332	21.500	12N	32.5	Yes
	<b>24CP4B</b>	SGA	A	90	6.3/600	M	22.0	300	22.812	332	21.500	12N	32.5	No
	24DP4	SG	A	90	6.3/600	E	22.0	300	22.812	332	21.500	12L		Yes
	24DP4A	SGA	A	90	6.3/600	E	22.0	300	22.812	332	21.500	12L		Yes
	24QP4	SG	A	90	6.3/600	M	20.0	300	22.812	332	21.500	12N		Yes
	24TP4	SGA	A	90	6.3/600	M	22.0	300	22.812	332	21.500	12N		Yes
24	24VP4	SGA	A	90	6.3/600	M	24.0	300	22.812	332	21.500	12N		Yes
	24VP4A	SGA	A	90	6.3/600	M	24.0	300	22.812	332	21.500	12N		Yes
	24XP4	SG	A	90	6.3/600	M	22.0	300	22.812	332	21.500	12D		Yes
	24YP4	SGA	A	90	6.3/600	E	22.0	300	22.812	332	21.500	12L		Yes
	24ZP4	SGA	A	90	6.3/600	E	22.0	300	22.812	332	21.500	12L	32.0	No

## Black & White Test Picture Tubes

8	<b>8XP4</b>	SGA	A	90	6.3/600	A	22.0	400	7.750	36	11.750	12S	3.0	No
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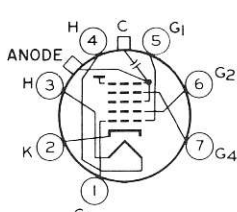
RCA Silverama<sup>a</sup> types shown in bold. For footnotes see page 16.

# Terminal Diagrams for Picture Tubes



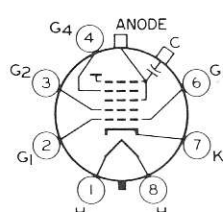
**7FA**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>4</sub>



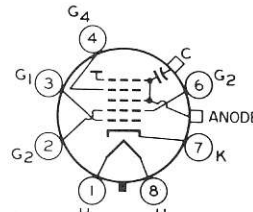
**7GR**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>4</sub>



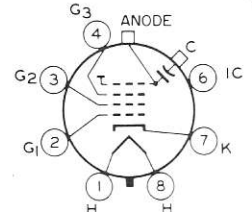
**8HR**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>4</sub>



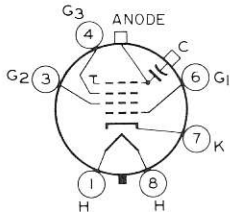
**8JK**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>4</sub>



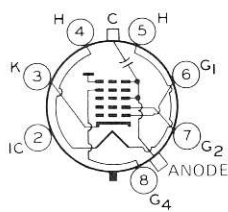
**8JR**

Anode = G<sub>4</sub> + CL  
Focusing Electrode = G<sub>3</sub>



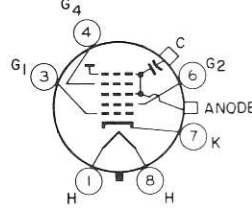
**8JS**

Anode = G<sub>4</sub> + CL  
Focusing Electrode = G<sub>3</sub>



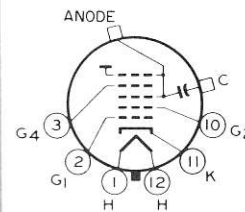
**8KP**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>4</sub>



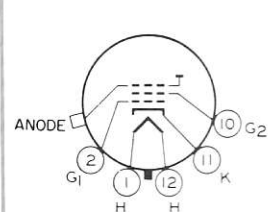
**8KW**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>4</sub>



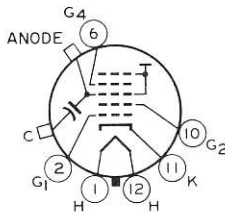
**12AB**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>4</sub>



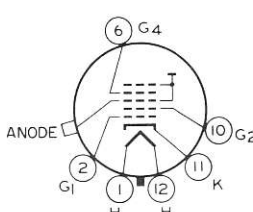
**12D**

Anode = G<sub>3</sub> + CL



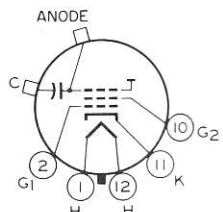
**12L**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>4</sub>



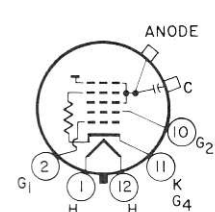
**12M**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>4</sub>



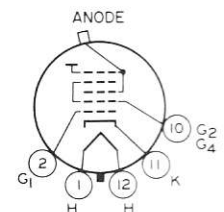
**12N**

Anode = G<sub>3</sub> + CL



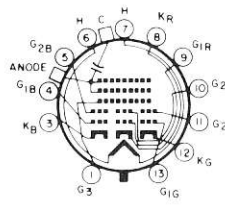
**12P**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Automatic Focusing



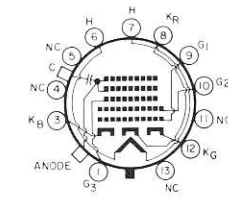
**12S**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Automatic Focusing



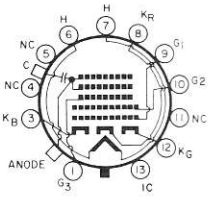
**13C**

Anode = G<sub>4</sub> + CL  
Focusing Electrode = G<sub>3</sub>



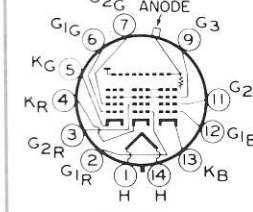
**13D**

Anode = G<sub>4</sub> + CL  
Focusing Electrode = G<sub>3</sub>



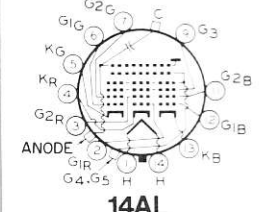
**13G**

Anode = G<sub>4</sub> + CL  
Focusing Electrode = G<sub>3</sub>



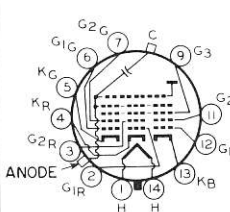
**14AH**

Anode = G<sub>4</sub> + G<sub>5</sub> + CL + R  
Focusing Electrode = G<sub>3</sub>



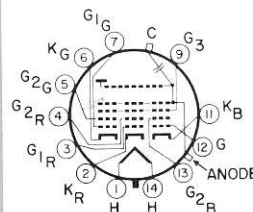
**14AL**

Cap Over Pin No. 1 = G<sub>4</sub> + G<sub>5</sub>  
Cap Over Pin No. 2 = Anode = G<sub>6</sub> + CL & High-Voltage  
Focusing Electrode = G<sub>3</sub>



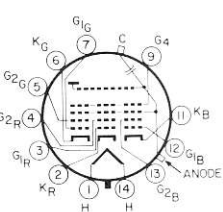
**14AU**

Anode = G<sub>4</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>3</sub>



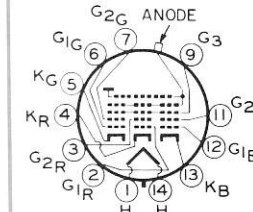
**14BE**

Anode = G<sub>4</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>3</sub>



**14BH**

Anode = G<sub>3</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>4</sub>



**14W**

Anode = G<sub>4</sub> + G<sub>5</sub> + CL  
Focusing Electrode = G<sub>3</sub>

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