



COLOR TUBE INTERCHANGEABILITY

TYPE TO BE REPLACED	IMPLOSION PROTECTION SYSTEM	REPLACE BY ZENITH TYPE (SEE IMPORTANT NOTICE)	REPLACE-MENT INFORMATION ▲	TYPE TO BE REPLACED	IMPLOSION PROTECTION SYSTEM	REPLACE BY ZENITH TYPE (SEE IMPORTANT NOTICE)	REPLACE-MENT INFORMATION ▲
14VABP22	RIM	AG/14VAFP22★	Direct*	18VAJP22	KIM	18VAHP22★	B
14VACP22	T-Band	XR14VADP22★	Direct*	18VAQP22	KIM		
14VADP22	T-Band			18VARP22	PPG	18VAHP22★	Direct
14VAFP22	RIM	AG/14VAFP22★	Direct*	18VASP22	KIM	18VAHP22★	B
14VAHP22	T-Band	XR14VADP22★	Direct*	18VATP22	KIM		
14VAJP22	RIM	14VAJP22★	Direct*	18VBAP22	KIM		
15ACP22	RIM	AG/14VAFP22★ C15ACP22	Direct* Direct*	18VBCP22	PPG	18VAHP22★	Direct
15AEP22	T-Band/EAR	C15AGP22	Direct*	18VBHP22	KIM	18VAHP22	B
15AFP22	RIM			18VBJP22	KIM/EARS	XR18VBJP22★	Direct*
15AGP22	KIM/EAR			18VBKP22	KIM	18VAHP22★	B
15AJP22	T-Band	XR14VADP22★	Direct*	19EXP22	None	18VAHP22★	B●
15KP22	None	C15LP22	B●	19EXP22/ 19GVP22	None	C19EXP22/ 19GVP22	Direct
15LP22	PPG	C15LP22	Direct			C19EYP22	B●
15NP22	T-Band	XR14VADP22★ C15NP22	Direct* Direct*	19EYP22	PPG	18VAHP22★	Direct
15RP22	None	C15LP22	B●	19EYP22/ 19GWP22	PPG	C19EYP22	Direct
15SP22	RIM	C15AGP22	Direct*	19FMP22	PPG		
15TP22	KIM	XR14VADP22★ C15NP22	Direct* Direct*	19FXP22	PPG		
15WP22	PPG	C15LP22	Direct	19GSP22	PPG		
15XP22	T-Band	XR14VADP22★ C15NP22	Direct* Direct*	19GVP22	None	18VAHP22★	B●
15ZP22	PPG	C15LP22	Direct	19GVP22/ 19EXP22	None	C19EXP22/ 19GVP22	Direct
16VABP22	T-Band	XR16VAHP22★	L*			C19EYP22	B●
16VACP22	T-Band			19GWP22	PPG	18VAHP22★	Direct
16VAFP22	RIM	16VAFP22	Direct*	19GWP22/ 19EYP22	PPG	C19EYP22	Direct
16VAHP22	KIM	XR16VAHP22★	Direct*	19GXP22	None	18VAHP22★	BC●
16VASP22	RIM	AG/16VATP22★ AG/16VASP22★	Direct* Direct*	19GYP22	None	C19EXP22/ 19GVP22	C
16VATP22	RIM	AG/16VATP22★	Direct*			C19EYP22	BC●
16VBFP22	RIM	AG/16VBFP22★	Direct*	19GZP22	PPG	18VAHP22★	Direct
16VBHP22	RIM	AG/16VBFP22★ AG/16VBHP22★	Direct* Direct*	19HBP22	PPG	C19EYP22	Direct
17EVP22	RIM	16VAFP22★ C17EVP22	Direct* Direct*	19HCP22	KIM	18VAHP22★	B
17EZP22	T-Band	XR16VAHP22★	L*	19HCP22/ 19HQP22	KIM	C19EYP22	B
17FKP22	KIM	XR16VAHP22★	Direct*			C19HCP22	Direct*
17VAEP22	T-Band	XR17VAGP22★	Direct*	19HFP22	PPG	18VAHP22★	Direct
17VAGP22	T-Band					C19EYP22	Direct
17VAKP22	RIM	AG/17VAKP22★	Direct*	19HJP22	KIM	18VAHP22★	B
18VABP22	KIM	18VAHP22★	B	19HQP22	None	C19EYP22	B
18VACP22	PPG	18VAHP22★	Direct	19HRP22	PPG	18VAHP22★	B●
18VADP22	KIM	18VAHP22★	B			C19EYP22	B●
18VAHP22	PPG	18VAHP22★	Direct	19HXP22	KIM	18VAHP22★	B
						C19EYP22	B
						C19HCP22	Direct*
				19JBP22	None	18VAHP22★	B●
				19JDP22	None	C19EYP22	B●

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19JHP22 19JKP22	PPG PPG	18VAHP22★ C19EYP22	Direct Direct	19VDQP22	KIM	19VEHP22★ AG/19VDFP22★	Direct* Direct*
19JNP22	KIM	18VAHP22★ C19EYP22 C19HCP22	B B Direct*	19VDTP22 19VDWP22 19VDXP22	KIM KIM KIM	19VEHP22★ AG/19VDFP22★ 19VATP22★	Direct* Direct* Direct*
19JQP22	None	18VAHP22★ C19EYP22	B● B●	19VDYP22	KIM	19VEHP22★ AG/19VDFP22★	Direct* Direct*
19JYP22	PPG	18VAHP22★ C19EYP22	Direct Direct	19VDZP22	RIM	AG/19VDZP22★ C19VDZP22★	Direct* Direct*
19JZP22	KIM	18VAHP22★ C19EYP22 C19HCP22	B B Direct*	20VABP22	KIM	20VAMP22	B
19KEP22	PPG	18VAHP22★	Direct	20VADP22	PPG	20VAMP22	Direct
19KFP22	KIM	18VAHP22★	B	20VAEP22	KIM	20VAMP22	B
19VABP22 19VACP22	PPG PPG	C21FJP22A/GV	Direct	20VAGP22	PPG	20VAMP22	Direct
19VAFP22	RIM	AG/19VDZP22★ C19VDZP22★ C19VAFP22★	Direct* Direct* Direct*	20VAJP22 20VAKP22 20VALP22	KIM KIM KIM	20VAMP22	B
19VAGP22	RIM	AG/19VDZP22★ C19VDZP22★ C19VAFP22★ AG/19VAGP22★	Direct* Direct* Direct* Direct*	20VAMP22 20VANP22 20VARP22	PPG PPG PPG	20VAMP22	Direct
19VANP22	KIM	XR19VANP22★	Direct*	20VASP22	KIM	20VAMP22	B
19VAQP22	KIM/EARS	AG/19VDNP22★ 19VAQP22★	Direct* Direct*	21AXP22 21AXP22A 21AXP22A/ 21AXP22	None None None	C21FBP22A/GU C21FJP22A/GV	CJ BCJ●
19VATP22 19VAUP22	KIM KIM	19VEHP22★ AG/19VDFP22★ 19VATP22★	Direct* Direct* Direct*	21CYP22 21CYP22A 21FBP22 21FBP22A 21FBP22A/ 21GUP22	None None None None	C21FBP22A/GU C21FJP22A/GV	J BJ
19VBDP22	PPG	XR19VBDP22★	Direct*	21FJP22 21FJP22A 21FJP22A/ 21GVP22 21FKP22	PPG PPG PPG	C21FJP22A/GV	J
19VBRP22	KIM	19VEHP22★ AG/19VDFP22★	Direct* Direct*	21GFP22 21GLP22 21GNP22 21GRP22	PPG PPG PPG PPG	20VAMP22★ C22QP22	L L
19VBWP22	KIM	19VEHP22★ AG/19VDFP22★ 19VATP22★	Direct* Direct* Direct*	21GUP22 21GUP22/ 21FBP22A	None None	C21FBP22A/GU C21FJP22A/GV	Direct B●
19VCBP22	KIM/EARS	AG/19VDNP22★ 19VAQP22★	Direct* Direct*	21GVP22 21GVP22/ 21FJP22A	PPG PPG	C21FJP22A/GV	Direct Direct
19VCFP22 19VCNP22	KIM KIM	19VEHP22★ AG/19VDFP22★	Direct* Direct*	21GWP22	PPG	20VAMP22★ C22QP22	L L
19VCQP22 19VCQP22A	RIM RIM	AG/19VDZP22★ C19VDZP22★	Direct* Direct*	21GXP22 21GYP22 21GZP22 21HAP22	PPG PPG PPG	C21FJP22A/GV	Direct
19VCRP22 19VCTP22 19VCXP22	KIM KIM KIM	19VEHP22★ AG/19VDFP22★	Direct* Direct*	21HBP22	PPG	20VAMP22★ C22QP22	L L
19VCYP22	KIM	19VEHP22★ AG/19VDFP22★ 19VATP22★	Direct* Direct* Direct*				
19VDFP22	KIM	19VEHP22★ AG/19VDFP22★	Direct* Direct*				
19VDMP22 19VDNP22	KIM/EARS KIM/EARS	AG/19VDNP22★	Direct*				

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22ABP22	PPG	20VAMP22★ C22QP22	Direct Direct	23VAMP22	KIM	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★	Direct* Direct* Direct* Direct*				
22ADP22	KIM	20VAMP22★	B	23VANP22	PPG	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★	Direct Direct Direct Direct B* B* B* B* B*				
22AGP22	KIM	C22QP22	B								
22AHP22	KIM	C22UP22	Direct								
22ALP22	KIM										
22ARP22	PPG	20VAMP22★ C22QP22★	Direct Direct								
22ASP22	KIM	20VAMP22★ C22QP22 C22UP22	B B Direct*	23VAQP22	KIM	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★	Direct* Direct* Direct* Direct* Direct*				
22AVP22	KIM	20VAMP22★	B								
22JP22	PPG	20VAMP22★ C22QP22	Direct Direct								
22KP22	None	20VAMP22★ C22QP22	B● B●								
22LP22	PPG	20VAMP22★	Direct					23VARP22	PPG	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★	Direct Direct Direct Direct B* B* B* B* B*
22QP22	PPG	C22QP22	Direct								
22RP22	None	20VAMP22★ C22QP22	B● B●								
22SP22	PPG	20VAMP22★ C22QP22	Direct Direct								
22UP22	KIM	20VAMP22★	B	23VASP22	PPG	23VATP22★ C23VATP22★ AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★	Direct Direct B* B* B* B*				
22XP22	KIM	C22QP22 C22UP22	B Direct*								
22YP22	PPG	20VAMP22★ C22QP22	Direct Direct					23VAUP22	PPG	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★	Direct* Direct* Direct* Direct*
23EGP22	PPG	C23EGP22	Direct								
23EGP22A	PPG	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ C25BAP22 C25XP22	G G G G G G								
23VABP22	PPG	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★	Direct Direct Direct Direct B* B* B* B* B*	23VAWP22	KIM	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★	Direct* Direct* Direct* Direct*				
23VACP22	KIM	AG/23VCEP22★	Direct*								
23VADP22	KIM	C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★	Direct* Direct* Direct* Direct*								
23VAHP22	PPG	23VATP22★	Direct					23VAXP22	PPG	23VATP22★ C23VATP22★ AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★	Direct Direct B* B* B* B*
23VALP22	PPG	C23VATP22★ 23VANP22★ C23VANP22★ AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★	Direct Direct Direct B* B* B* B* B*								
23VAYP22	KIM	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★	Direct* Direct* Direct* Direct*								
23VAZP22	NONE	23VATP22★ C23VATP22★	B● B●								
23VBAP22	KIM	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★	Direct* Direct* Direct* Direct*	23VBCP22	KIM	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★	Direct* Direct* Direct* Direct* Direct*				
23VBCP22	KIM	AG/23VCEP22★	Direct*								
23VBDP22	KIM	C23VCEP22★	Direct*								
23VBDP22	KIM	AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★	Direct* Direct* Direct*								
23VBDP22	KIM	C23VBAP22★	Direct*								

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23VBEP22	PPG	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★	Direct Direct Direct Direct B* B* B* B* B*	25ABP22	PPG	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ C25BAP22 ★ C25XP22 ★ AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★ C25BKP22 ★ C25AZP22 ★	Direct Direct Direct Direct Direct B* B* B* B* B* B* B* B*
23VBGP22	PPG	23VATP22 ★ C23VATP22 ★ AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★	Direct Direct B* B* B* B*	25ADP22	KIM	AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★ C25BKP22 C25AZP22	Direct* Direct* Direct* Direct* Direct* Direct*
23VBHP22	PPG	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★	Direct Direct Direct Direct B* B* B* B* B*	25AEP22	None	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ C25BAP22 C25XP22	B● B● B● B● B● B●
23VBJP22 23VBNP22 23VBRP22	KIM KIM KIM	AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★	Direct* Direct* Direct* Direct* Direct*	25AFP22	PPG	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ C25BAP22 C25XP22 AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★ C25BKP22 C25AZP22	Direct Direct Direct Direct Direct B* B* B* B* B* B* B*
23VBSP22	PPG	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★	Direct Direct Direct Direct B* B* B* B* B*	25AGP22 25AJP22	KIM KIM	AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★ C25BKP22 C25AZP22	Direct* Direct* Direct* Direct* Direct* Direct* Direct*
23VBTP22	KIM	AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★	Direct* Direct* Direct* Direct* Direct*	25ANP22 25AQP22	PPG PPG	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ C25BAP22 C25XP22 AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★ C25BKP22 C25AZP22	Direct Direct Direct Direct Direct Direct B* B* B* B* B* B* B*
23VBWP22	KIM	AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★	Direct* Direct* Direct* Direct*				
23VBYP22	KIM	AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★	Direct* Direct* Direct* Direct* Direct*				
23VCEP22 23VCGP22 23VCHP22	KIM KIM KIM	AG/23VCEP22 ★ C23VCEP22 ★	Direct* Direct*				

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25ASP22 25AWP22 25AXP22 25AZP22	KIM	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★ C25BKP22 C25AZP22	Direct* Direct* Direct* Direct* Direct* Direct* Direct*	25BKP22	KIM	AG/23VCEP22★ 23VCEP22★ AG/23VBAP22★ C23VBAP22★ C25BKP22	Direct* Direct* Direct* Direct* Direct*
25BAP22 25BCP22	PPG	23VATP22★ C23VATP22★ C25BAP22 AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ C25BKP22	Direct Direct Direct B* B* B* B* B*	25BMP22 25BRP22	PPG	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ C25BAP22 C25XP22 AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★ C25BKP22 C25AZP22	Direct Direct Direct Direct Direct B* B* B* B* B* B* B*
25BDP22	KIM	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ C25BKP22	Direct* Direct* Direct* Direct* Direct*	25AP22 25AP22A 25AP22A/ 25XP22	PPG PPG PPG	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ C25BAP22 C25XP22 AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★ C25BKP22 C25AZP22	Direct Direct Direct Direct Direct B* B* B* B* B* B* B*
25BFP22	KIM	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★ C25BKP22 C25AZP22	Direct* Direct* Direct* Direct* Direct* Direct* Direct*	25BP22 25BP22A 25BP22A/ 25YP22	None None None	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ C25BAP22 C25XP22	B● B● B● B● B● B●
25BGP22	PPG	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ C25BAP22 C25XP22 AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★ C25BKP22 C25AZP22	Direct Direct Direct Direct Direct B* B* B* B* B* B* B*	25CP22 25CP22A	PPG PPG	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ C25BAP22 C25XP22 AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★ C25BKP22 C25AZP22	Direct Direct Direct Direct Direct B* B* B* B* B* B* B*
25BHP22	KIM	AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★ C25BKP22 C25AZP22	Direct* Direct* Direct* Direct* Direct* Direct* Direct*	25F22 25F22A	None None	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ C25BAP22 C25XP22	B● B● B● B● B● B●
25BJP22	PPG	23VATP22★ C23VATP22★ 23VANP22★ C23VANP22★ C25BAP22 C25XP22 AG/23VCEP22★ C23VCEP22★ AG/23VBAP22★ C23VBAP22★ AG/23VAQP22★ C25BKP22 C25AZP22	Direct Direct Direct Direct Direct B* B* B* B* B* B* B*				

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25GP22 25GP22A	PPG PPG	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ C25BAP22 C25XP22 AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★ C25BKP22 C25AZP22	Direct Direct Direct Direct B* B* B* B* B* B* B*	25VADP22	PPG	25VAMP22 ★ C25VAMP22 ★ AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct B* B*
				25VAEP22	PPG	25VAMP22 ★ C25VAMP22 ★ 25VAEP22 ★ AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct Direct B* B*
				25VAFP22	KIM	AG/25VCNP22 ★ C25VCNP22 ★	Direct* Direct*
				25VAJP22 25VAKP22	PPG PPG	25VAMP22 ★ C25VAMP22 ★ 25VAEP22 ★ AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct Direct B* B*
25RP22	None	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ C25BAP22 C25XP22	B● B● B● B● B● B●	25VALP22 25VAMP22	PPG PPG	25VAMP22 ★ C25VAMP22 ★ AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct B* B*
25SP22 25VP22 25WP22 25XP22 25XP22/ 25AP22A	PPG PPG PPG PPG PPG	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ C25BAP22 C25XP22 AG/23VCEP22 ★ C23VCEP22 ★ AG/23VBAP22 ★ C23VBAP22 ★ AG/23VAQP22 ★ C25BKP22 C25AZP22	Direct Direct Direct Direct Direct Direct B* B* B* B* B* B* B*	25VAQP22	KIM	AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct
				25VATP22	PPG	25VAMP22 ★ C25VAMP22 ★ 25VAEP22 ★ AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct Direct B* B*
				25VAUP22	PPG	25VAMP22 ★ C25VAMP22 ★ AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct B* B*
25YP22 25YP22/ 25BP22A	None None	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ C25BAP22 C25XP22	B● B● B● B● B● B●	25VAWP22 25VAZP22	KIM KIM	AG/25VCNP22 ★ C25VCNP22 ★	Direct* Direct*
				25VBAP22	PPG	25VAMP22 ★ C25VAMP22 ★ 25VAEP22 ★ AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct Direct B* B*
25ZP22	PPG	23VATP22 ★ C23VATP22 ★ 23VANP22 ★ C23VANP22 ★ C25BAP22 C25XP22 AG/23VCEP22 ★ C23VCEP22 ★ AG/23VANP22 ★ C23VANP22 ★ AG/23VAQP22 ★ C25BKP22 C25AZP22	Direct Direct Direct Direct Direct Direct B* B* B* B* B* B* B*	25VBGP22	KIM	AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct
				25VBHP22 25VBLP22	PPG PPG	25VAMP22 ★ C25VAMP22 ★ 25VAEP22 ★ AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct Direct B* B*
				25VBMP22	PPG	25VAMP22 ★ C25VAMP22 ★ AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct B* B*
25VABP22	PPG	25VAMP22 ★ C25VAMP22 ★ AG/25VCNP22 ★ C25VCNP22 ★	Direct Direct B* B*	25VBNP22 25VBQP22 25VBRP22 25VBUP22 25VBWP22	KIM KIM KIM KIM KIM	AG/25VCNP22 ★ C25VCNP22 ★	Direct* Direct* Direct* Direct* Direct*
25VACP22	KIM	AG/25VCNP22 ★ C25VCNP22 ★	Direct* Direct*				

TYPE TO BE REPLACED	IMPLOSION PROTECTION SYSTEM	REPLACE BY ZENITH TYPE (SEE IMPORTANT NOTICE)	REPLACEMENT INFORMATION ▲	TYPE TO BE REPLACED	IMPLOSION PROTECTION SYSTEM	REPLACE BY ZENITH TYPE (SEE IMPORTANT NOTICE)	REPLACEMENT INFORMATION ▲
25VBXP22	PPG	25VAMP22★ C25VAMP22★ 25VAEP22 ★ AG/25VCNP22★ C25VCNP22 ★	Direct Direct Direct B* B*	490AB22 490ACB22 490ADB22	None None None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	BJ● J BJ●
25VBZP22 25VCBP22 25VCEP22 25VCFP22	KIM KIM KIM KIM	AG/25VCNP22★ C25VCNP22 ★	Direct* Direct*	490AEB22 490AFB22 490AGB22	PPG PPG PPG	18VAHP22★ C19EYP22	J J
25VCGP22	PPG	25VAMP22★ C25VAMP22★ AG/25VCNP22★ C25VCNP22 ★	Direct Direct B* B*	490AHB22	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	BJ● J BJ●
25VCKP22	PPG	AG/25VCNP22★ C25VCNP22 ★	B* B*	490AHB22A	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	B● Direct B●
25VCNP22 25VCUP22 25VCWP22 25VCZP22	KIM KIM KIM KIM	AG/25VCNP22★ C25VCNP22 ★	Direct* Direct*	490AJB22 490AJB22A	PPG PPG	18VAHP22★ C19EYP22	Direct Direct
25VDAP22	PPG	AG/25VCNP22★ C25VCNP22 ★	B* B*	490AKB22	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	BJ● J BJ●
25VDBP22 25VDCP22	KIM KIM	AG/25VCNP22★ C25VCNP22 ★	Direct* Direct*	490AKB22A	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	B● Direct B●
25VDEP22	PPG	AG/25VCNP22★ C25VCNP22 ★	B* B*	490ALB22 490AMB22	None None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	BJ● J BJ●
25VDJP22	PPG	25VAMP22★ C25VAMP22★ AG/25VCNP22★ C25VCNP22 ★	Direct Direct B* B*	490AMB22A	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	B● Direct B●
25VDKP22	PPG	AG/25VCNP22★ C25VCNP22 ★	B* B*	490ANB22	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	BJ● J BJ●
25VDMP22 25VDNP22 25VDSP22	KIM KIM KIM	AG/25VCNP22★ C25VCNP22 ★	Direct* Direct*	490ARB22	PPG	18VAHP22★ C19EYP22	J J
25VDWP22	T-Band	AG/25VCNP22★ C25VCNP22 ★	Direct* Direct*	490ASB22 490ASP22A	PPG PPG	18VAHP22★ C19EYP22	Direct Direct
26AP22	PPG	25VAMP22★ C25VAMP22★ AG/25VCNP22★ C25VCNP22 ★	Direct Direct B* B*	490BAB22	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	B● Direct B●
26DP22	KIM	AG/25VCNP22★ C25VCNP22 ★	Direct* Direct*	490BCB22	PPG	18VAHP22★ C19EYP22	Direct Direct
26FP22	PPG	25VAMP22★ C25VAMP22★ AG/25VCNP22★ C25VCNP22 ★	Direct Direct B* B*	490BDB22	PPG	18VAHP22★ C19EYP22	J J
26GP22	KIM	AG/25VCNP22★ C25VCNP22 ★	Direct* Direct*	490BGB22	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	B● Direct B●
26KP22	PPG	25VAMP22★ C25VAMP22★ AG/25VCNP22★ C25VCNP22 ★	Direct Direct B* B*	490BHB22 490BRB22 490CAB22	PPG PPG PPG	18VAHP22★ C19EYP22	Direct Direct
370AB22	RIM	C15AGP22	Direct*				
370CB22	KIM	XR14VADP22 ★ C15NP22	Direct* Direct*				
370EB22	RIM	C15VAGP22	Direct*				

TYPE TO BE REPLACED	IMPLOSION PROTECTION SYSTEM	REPLACE BY ZENITH TYPE (SEE IMPORTANT NOTICE)	REPLACEMENT INFORMATION ▲	TYPE TO BE REPLACED	IMPLOSION PROTECTION SYSTEM	REPLACE BY ZENITH TYPE (SEE IMPORTANT NOTICE)	REPLACEMENT INFORMATION ▲
490CB22	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	BJ● J BJ●	490NB22 490RB22 490SB22 490TB22	PPG PPG PPG PPG	18VAHP22★ C19EYP22	J J
490CHB22	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	B● Direct B●	490UB22	None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	BJ● J BJ●
490CUB22 490DB22 490DB22A	PPG PPG PPG	18VAHP22★ C19EYP22	Direct Direct	490VB22 490WB22	PPG None	18VAHP22★ C19EYP22	J J BJ● J BJ●
490EB22 490EB22A 490FB22 490GB22	None None None None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	BJ● J BJ●	490XB22 490YB22 490ZB22	PPG PPG PPG	18VAHP22★ C19EYP22	J J
490HB22 490JB22 490JB22A	None None None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	B● Direct B●	510ARB22	KIM/EARS	AG/19VDNP22★ 19VAQP22★	J* J*
490KB22 490KB22A 490LB22 490MB22	None None None None	18VAHP22★ C19EXP22/ 19GVP22 C19EYP22	BJ● J BJ●				

IMPORTANT NOTE: The CRT's in this column have equal or better X-ray safety characteristics than the CRT's specified by the set manufacturer. Therefore, while the replacement as indicated in this chart is recommended in order to provide the maximum degree of safety, the reverse interpretation of this chart is not permitted and in fact, could result in excessive X-radiation emission.

COLOR TUBE REPLACEMENT INFORMATION

Important Instructions, Read Carefully

1. 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.
2. In the case of a similar type, its basing arrangement is the same as that of the type to be replaced, but its listed differences must be considered in using it as a replacement.
3. 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, with a contact area of at least 1/4 square inch.

IMPLOSION PROTECTION

NONE — None
KIM — Kimcode
PPG — Pittsburg Plate Glass Laminated Panel

RIM — Filled Rim
TB — T-Band

Replacement Classification Keys

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 of interchangeability of the type, the prefixes have been omitted from type nos. in the column.

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

- ★ Contains improved X-radiation 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. Type does not require an external ion-trap magnet.
- B. The 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 type is slightly greater.
- D. External conductive coating must be grounded.
- E. The replacement type is electrically interchangeable — Mechanical modifications to the receiver may be required.
- F. The 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 Conversion Kit Part No. 1U68674A10 when using this type as a replacement.
- J. The 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.
- K. Pin No. 6 (focusing electrode) of the replacement must be connected to Pin No. 11 at the socket. The original tube did not require an external voltage for focus.
- L. The 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.

This guide is based on industry registered picture tube data, industry registered bulb data and manufacturer's published data. Information contained herein has been carefully checked and is believed to be reliable but no responsibility is assumed for possible inaccuracies.

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ZENITH COMPONENTS & ACCESSORIES DIVISION

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