

PHILCO CORPORATION

Office Correspondence

October 7, 1957

Mr. S. W. Moulton,
Extension 5885

In recent months, mask sets have been changed so frequently that it has been difficult for Plant 2 personnel to identify tubes according to their mask sets. In the future, the data sheets which accompany the tubes will also identify the mask set with which the tube was screened. For reference purposes, the following list identifies the more recent mask sets and a brief description of each mask set is given.

CX 1 - 277	MS - 57 (except for the following numbers listed under MS-0 and MS-Q)
CX - 49,57,69,70,78,81	MS - 0
Q ₁ - Q ₂₀	MS - 58 (57 phosphor lines)
X - 160,151,152,153,154, 155,162,163	MS - 58
D ₁ - D ₄₀	MS - 58
D ₄₁ - D ₁₄₀	MS - 58 T ₂
D-141 - D-150	MS - 59
D-161 - D-180	MS - 59 T ₂
D-181 - D-220	MS - 60
D-220 →	MS - 60 T ₂

MS - 57

Same prescription as MS - 55 and MS - 56, which were designed for secondary emission tubes.

Pitch = 61 mil

Triad = equal width R, G, B, 50% black triad.

MS - 0

Test prescription which was made in an attempt to optically correct K_y (the vertical parabolic term) in the MS-57 prescription. Results were unsatisfactory due to large accompanying change in K_x .

MS - Q

See MS - 58.

MS - 58 Also called MS - Q - Pitch = 69 mil

This was a preliminary to MS - A. It was made from the same plastic panel as MS - 57, but a partial attempt to improve K_y was made by changing the optical constants used when making the submasters. It was also made in an attempt to produce an improvement in the amount of 3 mc. component in the index. It did not achieve this goal.

MS - 58 T2

Similar to MS - 58, except less 3 mc. in index.

MS - 59 A

First mask set A index lines were too wide and triad lines too narrow, causing index shadowing on screen. Index and triad were misregistered by approximately $-18^\circ +0^\circ$. The line width plus the misregistry introduced a large amount of 1/2 frequency component in the screen structure.

MS - 59A - T2

Identical to 59A with the exception of a new triad and index submaster with better line widths. Misregistry same as 59A.

MS - 60A

Completely new set of submasters made from MS - 59A plastic panel. Has registry error of $-8^\circ +0^\circ$. The triad and index both have many small holes (stars) and tiny blemishes and is wavy in the central area.

0/735.3

MS - 60A - T2

Same as MS 60A, except an attempt has been made to point out a few of the holes in the triad. No improvement in the index.

C. P. Comeau

CPC/ro

cc: Messrs. Anderson Keiper
 Chatten Mutschler
 Erickson Nitterour
 Faylor Partin
 Gardner Stauffer