

RADIO CORPORATION OF AMERICA RCA VICTOR DIV., TUBE DEPT. 2t-Z

STANDARDIZING, LANCASTER, PA.

APPLICATION OF RESIST COATING Process Specification

STANDARDIZING NOTICE

Date Aug. 13, 1954 PAGE

34-17-62A

SUPERSEDES June 18, 1954

This specification applies to the process of applying the photo resist (poly vinyl alcohol) coating to the phosphor area of the cap of tri-color kinescope bulbs.

SCHEDULE No. 1 (Initially for the C7365QA)

1. EQUIPMENT

a. Resist spinner. Serial No. 5604.

b. Ring type air dryer (10 lb. max.)

c. Hand aspirator.

d. Draining rack.

e. 100 liter graduate

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2. MATERIALS

A264A Pely vinyl Alcohol Coating Tap water

PROCEDURE

a. For blue dots

1. Place 60 ml of photo resist coating in the tube cap.

2. Gently swirl the coating around in the cap until the entire phosphor area is covered.

3. Place cap'at an angle of approximately 60° and remove excess photo resist with hand aspirator.

4. Place the cap on the spinner open end down and spin as follows: a. 1 min. at 220 rpm, no lamps on.

b. 4 min. at 220 rpm, side lamps on.

5. Remove cap from spinner and place in draining rack.

6. Remove excess resist coating from metal flange of cap with a hooked aspirator tip.

7. Remove cap from drying rack and place open end down on air dryer. Leave on air dryer *10 minutes.

b. For green dots

1. Place 90 ml of photo resist coating in the tube cap.

2. Gently swirl the coating around in the cap until the entire phosphor area is covered.

3. Place cap at an angle of approximately 60° and remove excess photo resist with hand aspirator.

4. Place the cap on the spinner open end down and spin as follows:

a. 1 min. at 220 rpm, no lamps on.

b. 4 min. at 220 rpm. side lamps on. 5. Remove cap from spinner and place in draining rack.

6. Remove excess resist coating from metal flange of cap with a hooked aspirator tip.

7. Remove cap from drying rack and place open end down on air dryer. Leave on air dryer *12 minutes.

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SUPERSEDES June 18, 1954

PROCEDURE (Cont'd)

c. For red dots

1. Place 120 ml of photo resist coating in the tube cap.

- 2. Gently swirl the coating around in the cap until the entire phosphor area is covered.
- 3. Place cap at an angle of approximately 600 and remove excess photo resist with hand aspirator.
- 4. Place the cap on the spinner open end down and spin as follows: a. 1 min. at 220 rpm, no lamps on. b. 4 min. at 220 rpm, side lamps on.

5. Remove cap from spinner and place in draining rack.

- 6. Remove excess resist coating from metal flange of cap with a hooked aspirator tip.
- 7. Remove cap from drying rack and place open end down on air dryer. Leave on air dryer *15 minutes.

CAUTION: After use of aspirators, run 2 beakers of water thru the aspirator system so resist is washed out and does not dry.

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End of Schedule No. 1

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APPLICATION OF RESIST COATING Process Specification

STANDARDIZING NOTICE

34-17-62A

supersedes Nov. 4, 1954

DATE March 4, 1955 PAGE

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This specification applies to the process of applying the photo resist (polyvinyl alcohol) coating to the phosphor area of the color kinescope faceplate.

SCHEDULE NO. 2 (Initially for the C73685 Series.)

1. EQUIPMENT

- . Resist spinner, serial No. 5604.
- b. Hot air drying rack
- c. Hand aspirator
- d. 250 ml beaker with mark at 150 ml level

2. MATERIAL

A264A Polyvinyl Alcohol Coating (For Red & Green Phosphorus)
** A264B Polyvinyl Alcohol Coating Tap Water (For Blue Phosphor)

3. PROCEDURE

a. Hold cap at an angle of approximately 60° and place 150 ml of photo resist coating in the bottom.

. Gradually tilt cap forward and rock from side to side so that coating

spreads evenly over phosphor.

c. Hold cap at an angle of approximately 60° and remove excess coating with hand aspirator. Run water thru aspirator to wash out resist and prevent it from drying

d. Place the cap on the spinner open end down and spin at 190 - 200 rpm

for 3 minutes with the side lamps on.

e. Remove cap from spinner and place open end down on the hot air drying rack. Dry for 5 minutes. Air flow reading on the meter at approximately 1 psi should be 800 - 820 ft³/hr. Air temperature should be 115°±15°C on the thermometer installed in hot air line.

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ADDITION