INSTRUCTIONS FOR INSTALLATION OF COLORTONE ADAPTER
MODEL X-202
READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO
INSTALL ADAPTER INTO TELEVISION RECEIVER

SYNCROGUIDE & VERTICAL BLOCKING OSCILLATOR

Vertical Oscillator Circuit Changes

Completely remove the 4700 mmf. or .005 mfd. located on the grid
of the oscillator tube. This tube may be either a 6J5 or a 6SN7 de-
pending on the model of the set. If the tube is a 6J5, the grid is pin
#5. If the tube is a 6SN7, the grid is pin #1 or pin #4.

Connect the green lead of the shielded cable with the RED DOT to
the grid of the vertical oscillator tube. Then connect the blue lead
of the same cable to the point where the other side of the 4700 mmf.
condenser was attached.

Solder shield to a nearby ground.

Horizontal Oscillator Circuit Changes

Completely remove the 180 mmf. condenser which is connected from
pin F of the syncroguide to the grid of the oscillator tube (See diagram
at bottom of page). Solder the inner lead of the COAXIAL cable to the
grid of the oscillator tube. Then solder the braided shield to pin F of
the syncroguide. Completely remove the .002 mfd. (220 mmf.) indi-
cated on the diagram. After these changes have been made, recheck
them with the aid of the diagram at the bottom of the page. Then
connect the leads from the 12 conductor cable.

1. Solder Black lead to pin D of syncroguide.
2. Solder brown lead to pin C of syncroguide.
3. Solder yellow lead to any -80 volt point in set.

See other side for remaining cable connections.
CONTROL CIRCUIT CHANGES (12 CONDUCTOR CABLE)

Height Control Changes

Remove the wire going to pin 3 of the height control and splice this wire to the green wire from the cable. Solder the white wire of the cable to pin 3 of the height control. Solder the red wire of the cable to pin 2 of the control. For assistance in making these changes refer to control diagram A on the bottom of this sheet.

Linearity Control Changes

Remove wire from pin 1 of the linearity control and splice it to the orange wire of the cable. Solder the blue wire to pin 1 of the control. Solder the pink wire of the cable to pin 3 of the control. See control diagram B for assistance.

Focus Control Changes

Remove connection from pin 2 of the control and splice it to the grey wire of the cable. Solder the light brown wire of the cable to pin 2 of the control. Solder the purple wire of the cable to pin 1 of the control. See diagram C for assistance in following these instructions.

DO NOT CLIP THE THREE REMAINING LEADS AS THEY WILL BE USED IN THE CONNECTION OF THE ADAPTER.

NOTE: ALL CONTROLS VIEWED FROM REAR
ALIGNMENT INSTRUCTIONS

MODEL X-202 - - COLOR ADAPTER

FOR SETS USING SYNCROGUIDE HORIZONTAL OSCILLATOR
AND BLOCKING OSCILLATOR VERTICAL

1. Turn on set to a black and white program, and switch to black
   and white position.

2. Re-adjust syncroguide if necessary by tuning slug slightly counter
clockwise to lock picture horizontally.

3. Adjust vertical hold if necessary. AFTER THE PICTURE IS
   LOCKED IN BLACK AND WHITE, THE CONTROLS SHOULD
   NOT BE TOUCHEd WHILE ADJUSTING THE ADAPTER FOR
   COLOR RECEPTION. These adapters have been pre-tuned
   for color at the factory, however, wiring capacities may change
   the tuning slightly. If this has happened, the adapter should be
   adjusted in the following manner.

   NOTE: THE ADAPTER CAN ONLY BE TUNED FOR COLOR
   WHEN A COLOR TRANSMISSION IS BEING RECEIVED.

1. Tune in a program which is being transmitted in color.
2. Switch the adapter to the color position.
3. Adjust the trimmer on the side of the adapter for vertical
   lock-in.
4. Remove the bottom plate of the adapter. Adjust the trimmer
   condenser with the colored dot for horizontal lock-in. This
   condenser determines the horizontal frequency and should be
   adjusted very slowly.
5. After the color pattern is received, replace the bottom plate.

The adapter changes are now complete and the TV set is ready to re-
ceive programs in black and white or color by merely turning the
adapter switch to the proper position.