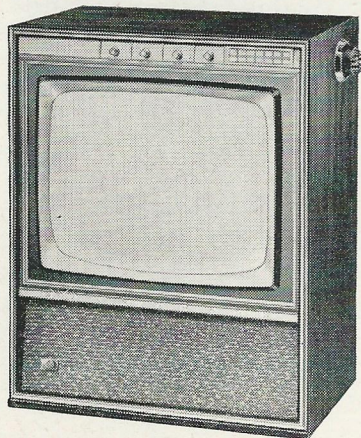


WESTINGHOUSE SERVICE MANUAL FOR MODELS W2323, W2323X, W2323SA



TELEVISION



Model W2323 is a 23 inch, A.C. operated Television Receiver using 17 valves and 2 diodes.

The "X" and "SA" Models are 23 inch, A.C. operated Television Receivers using 18 valves and 2 diodes, the "SA" model incorporating aerial switching.

Features of design: Cascode tuner; 3-stage i.f. amplifier; noise gated a.g.c.; 110° deflection; electrostatic focus; aluminised kinescope; inter-carrier f.m. system; ratio detector; tone control; pre-set fine tuning adjustment for each channel.

Issued by:—

WESTINGHOUSE ROSEBERY PTY. LTD.
RADIO AND TELEVISION DIVISION

MODEL DESIGNATION

MODEL	CABINET	CHASSIS	TUNER	KINESCOPE	SPEAKER	
W2323	Console	T31C	ME1J/43150	23CP4	9" x 6"	50084
W2323X	Console	TX31C	ME1J/43150	23CP4	9" x 6"	50084
W2323SA	Console	TX31C	ME1J/43150	23CP4	9" x 6"	50084

This manual contains chassis, kinescope, safety glass and kinescope mask removal and installation procedures together with a mechanical replacement list for the models listed above.

For all electrical and mechanical information pertaining to the chassis and tuners refer to the Service Manuals covering the T31 or TX31 Series Chassis as required.

HIGH VOLTAGE WARNING

Operation of this receiver outside the cabinet involves a shock hazard from the receiver power supplies. Work on the receiver should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Do not operate the receiver with the high voltage compartment shield removed. Make sure that the earth strap between the chassis and the kinescope assembly is securely fastened before turning the receiver on.

KINESCOPE HANDLING PRECAUTIONS

Do not install, remove or handle the kinescope in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while handling kinescopes. While handling the kinescope keep it away from your body.

When the receiver has been switched off after operating for a time, the kinescope will retain a certain charge. Therefore it is advisable to discharge it before handling.

CHASSIS REMOVAL AND INSTALLATION

For convenience and speed in repair work the chassis is so arranged that it may be swung out at right angles to the cabinet thus providing excellent accessibility.

Disconnect the aerial lead-in and remove the cabinet back.

Unplug the yoke and kinescope cables and remove the tuner earth strap. Lift the aerial lead-in off its chassis-mounted retainer.

Remove all the chassis mounting bolts except the two left hand pivot bolts.

Swing the right hand side of the chassis out far enough to allow the ultor lead to be disconnected after making sure the kinescope is discharged.

The chassis can now swing out fully.

If the chassis is to be removed completely, the following additional steps are required.

Remove the channel selector and four control knobs; these are all a push on fit.

Remove the channel selector escutcheon and the countersunk screw thus exposed.

Remove the switch wafer(s) and the two-pin plug from the rear of the tuner.

Disconnect the speaker, aerial lead-in and tuner i.f. leads.

Remove the rear tuner mounting bolt.

Remove the three nuts securing the control panel to the front of the cabinet.

Lift the left hand side of the chassis out until the tuner and front control panel can be removed and attached to the main chassis. The complete chassis assembly can then be lifted free.

Chassis installation is the reverse of the above procedure, but make sure of the following points:—

The ultor lead must be replaced in its retainer attached by a spring to the kinescope cradle.

Replace the aerial lead-in in its retainer.

The flat washer, under the chassis at the bottom pivot bolt, must also be in position.

KINESCOPE HANDLING AND PRECAUTIONS

Do not install, remove or handle the kinescope in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while kinescopes are being handled.

Keep the kinescope away from the body while handling.

KINESCOPE REMOVAL AND INSTALLATION

Remove the chassis as described above.

Place the receiver face downwards on a carpet or rug.

Remove the four nuts, washers and lock washers securing the kinescope cradle assembly to the mounting brackets. Lift the kinescope cradle assembly free and place it face downwards on a clean cloth.

Loosen the yoke cap clamp and slide the yoke assembly off the neck of the kinescope.

Loosen the bolts on the kinescope cradle wire and remove the kinescope.

When replacing the kinescope watch the following points:—

When viewed from the rear of the cabinet the high voltage contact is on the right hand side of the kinescope.

When assembling the cradle wire make sure that all the rubber packers and cushioning pads are in place to prevent direct pressure contact between the cradle and the kinescope envelope.

Leave the cradle wires just slack enough when the kinescope assembly is placed in the cabinet to allow the cradle brackets to be moved, if necessary, to line up with the bolts in the mounting brackets.

Make sure the kinescope is symmetrically placed in relation to the mask.

KINESCOPE MASK REMOVAL

Remove the two screws holding the mask trim frame in position; these will be found under the wooden trim at the top of the speaker baffle. The trim and mask are then removed by lifting their bottom edges out and down.

PILOT LAMP REPLACEMENT

Remove the cabinet back.

Remove the channel selector knob and escutcheon.

Remove the countersunk screw thus exposed.

Disconnect the tuner earth strap and remove the rear tuner mounting bolt.

Remove the tuner from the side of the cabinet and hold it while removing the light panel. This panel is held by two spring clips which can be swung to one side and allow the removal of the panel.

MECHANICAL REPLACEMENT PARTS

Bracket, Escutcheon Mounting	..	..	..	42769
Escutcheon, Channel Selector	..	..	..	42136
Escutcheon, Assembly, Controls	..	..	..	42931
Glass, Safety	..	..	..	42001
Knob Assembly, Channel Selector	..	..	..	42659
Knob Assembly, Controls	..	..	..	42644
Knob Assembly, Preset	..	..	..	42846
Retainer, Glass	..	..	..	42753
Window, Channel Number	..	..	..	42735