





# Notes from the Field

MODEL CX2174W. NO PICTURE OR SOUND, V1, V2, V3 NOT LIT. NO SHORT CIRCUITS, FUSE OKAY, AC VOLTAGE PRESENT, TUBES NORMAL.

Ground return for filament voltage at horizontal output tube, V3, open due to broken printed circuit at edge of printed circuit board.

*Thomas J. Bush, 8520 Lake Atkinson Dr., Tallahassee, Florida.*

E02 CHASSIS. THE HORIZONTAL OUTPUT TRANSISTOR BLOWING IMMEDIATELY; ALSO, HORIZONTAL DRIVER RUNS HOT.

Regulator transistor, Q500, shorted; also, boost diode, SC410, shorted. Replaced both components.

*Charles TV, Indian Head, Maryland.*

D16-15 CHASSIS. VERTICAL CIRCUIT. CRITICAL VERTICAL SYNC AFTER WARM-UP.

C332, .0033 Capacitor.

*Charlie Bird, Dalton T. V., Radford, Virginia.*

G6 300 RECORD CHANGER. WHEN MORE THAN 3 LP RECORDS ARE STACKED ON THE SPINDLE, RECORDS WILL NOT TRIP FROM SPINDLE SHELF.

Add another spring blade, number 50, under the old one. Remove retaining clip and replace it upside down.

*Michael Caputo, FSDM, Levittown, Pennsylvania.*

D06 OR D08 CHASSIS. NO SOUND OR PICTURE. HORIZ. OUTPUT TRANSFORMER SINGS - HOWEVER, OUTPUT TRANSISTOR DOES NOT HEAT UP. INPUT VOLTAGE (COLLECTOR) TO BOTH Q500 AND Q502 MEASURES LESS THAN 100VDC. PULLING THE DEFLECTION YOKE SOCKET, SOUND COMES ON.

C520 (1000MFD, @ 200VDC) open.

*Ennis Williams, FSDM, Omaha, Nebraska.*

D1219 CHASSIS. UHF SEARCH WOULD NOT MOVE UP SCALE DUE TO RY1002 (MOTOR REVERSE RELAY) LATCHING AS SOON AS REMOTE WAS TURNED ON. All Q1012 components checked OK. C1081 had internal short between B & C, causing B+ voltage to RY1002 at all times.

*Bill Reed, Toledo Appliance, Inc., Toledo, Ohio.*

E0402 CHASSIS. CHANNEL MOTOR STOPS BETWEEN STATIONS. UHF B+ WAS PRESENT @ TN6 ALL THE TIME. SYMPTOMS INDICATED SHORTED Q1204, BUT ALL BANDSWITCH PANEL COMPONENTS CHECKED OK. Problem was bad bottom pushbutton row. Exact cause was not found as all active components on pushbutton row checked OK.

E11-3,4 CHASSIS. ON STRONG SIGNAL - AGC OVERLOAD AND HORIZONTAL BENDING.

Caused by defective FET Q1, 13-10231-59 in the tuner (54-39277-2).

D12 CHASSIS. NOISE IN PICTURE, AND CAUSES INTERFERENCE IN OTHER SETS.

Replaced Sync Sep. (Q308).

D12 CHASSIS. NO CONTROL OF AGC.

C302 shorted.

*Harlan Lippincott, FSDM, Columbus, Ohio.*

E06 AND E08 CHASSIS. WHITE HORIZONTAL LINE TOP OR BOTTOM OF RASTER. Q300 OR Q302 SOCKET, POOR SEATING OF TRANSISTOR.

Heat socket leads in PC board and pull up flush to copper. Resolder and this gives more seating to transistor leads.

*Joe Richard, Sylvania Service Company, Cleveland, Ohio.*

## UPDATING LAST YEAR'S TK14 TO THIS YEAR'S TK16

- Just Order the Following Transistors -

*Charles Boudreau, Choquette & Co., Inc., Providence, Rhode Island*

QUANTITY	PART NUMBER	E06 E08 SERIES EXTRAS NEEDED	POPULAR TRANSISTORS FOR TUNER
2	13-28392-3	Not on any list yet.	1 - RF AMP - 13-10321-79
1	13-28393-2		1 - MIXER - 13-10321-82
5	13-29165-2	1 - 15-39060-1	1 - OSC. - 13-10321-81
1	13-33175-1	1 - 13-39074-1	
1	13-33178-1	1 - 13-39099-1	
2	13-34002-3	1 - 13-39098-1	
1	13-34057-1	1 - 13-39100-1	
1	13-34367-30	1 - 13-39114-1	
1	15-34401-1	1 - 13-39115-1	
2	15-35059-1		

These are all plug-in on top of tuner. (Replace shield)

**AVOID MISTAKES - ORDER PARTS BY PART NUMBERS**

UPDATING TK14 TO TK16

TK16 Kit has more transistor types than compartments. The arranged layout will help identify transistors. Two (2) or three (3) types will be in some compartments, but dissimilar in shape and color for easy selection. Cut out and insert on inside cover with glue or tape. Numbers in parentheses are the new ones.

1 13-18365-1	2 13-23822-1	3 13-23824-1	4 13-23826-1	5 13-26386-3	6 13-27404-2
7 13-27432-1	8 (13-28392-3) 13-27432-2	9 13-27433-1 13-28471-1	10 13-29033-3 13-29775-3	11 13-29776-1 or 13-29776-2	12 13-29947-1
13 (13-28393-2) 13-33174-1 13-33180-1	14 13-33181-1	15 13-33182-2	16 13-33184-1 13-33185-1 (13-29165-2)	17 13-33188-2	18 13-33595-2 13-33742-1 13-34046-2
19 (13-33175-1) 13-34046-3 13-34046-4 (13-33178-1)	20 (13-34002-3) 13-34046-5 13-34047-3	21 13-34940-1 (13-34057-1)	22 13-35089-4 (13-34367-30) or (13-34367-40)	23 13-35226-1	24 13-35257-4
25 13-35324-1	26 13-35807-1	27 13-37708-1	28 13-37900-1	29 (15-34401-1) 13-39106-1	30 15-37700-1
31 15-37701-1 or 15-37701-2	32 15-37702-1	33 15-37703-1	34 15-37704-1	35 15-37833-2	36 (15-35059-1)

## PREPARE FOR A BETTER YEAR — 1975

The month of January owes its name to the ancient Roman deity, Janus, god of doorways as well as god of the beginning of any important undertaking.

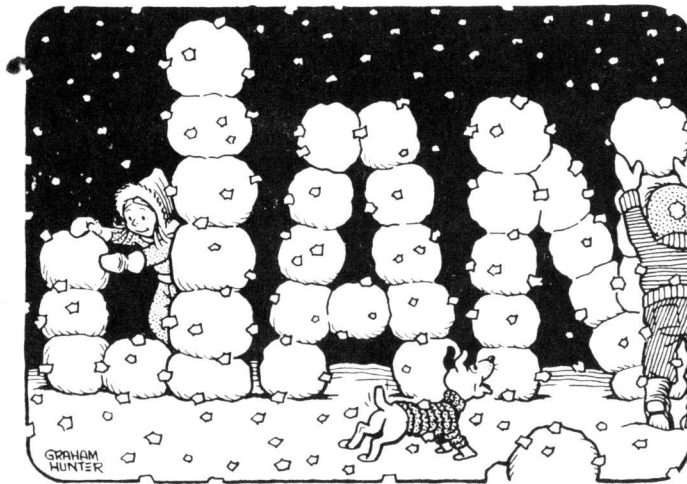
Janus was two-faced, not because he was double-dealing or false, but rather because he stood guard at the gates of Rome. One face turned to the front; the other, to the back. Therefore, none could enter or leave Rome without his knowing it.

January, then, is appropriately named after Janus; for it is the beginning of a very important undertaking: a new year. Additionally, since he faces both to the

front and to the back of the entrance to the city, he symbolically looks back on the year just ended and forward to the year beginning.

So look back with Janus to 1974. Reflect on the sorrows and joys of the past. Further, consider what you have learned during that year. Then, look forward to 1975 with renewed courage based on the mistakes of the past and the knowledge resulting from each experience.

And with Janus, prepare for an even better year.



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