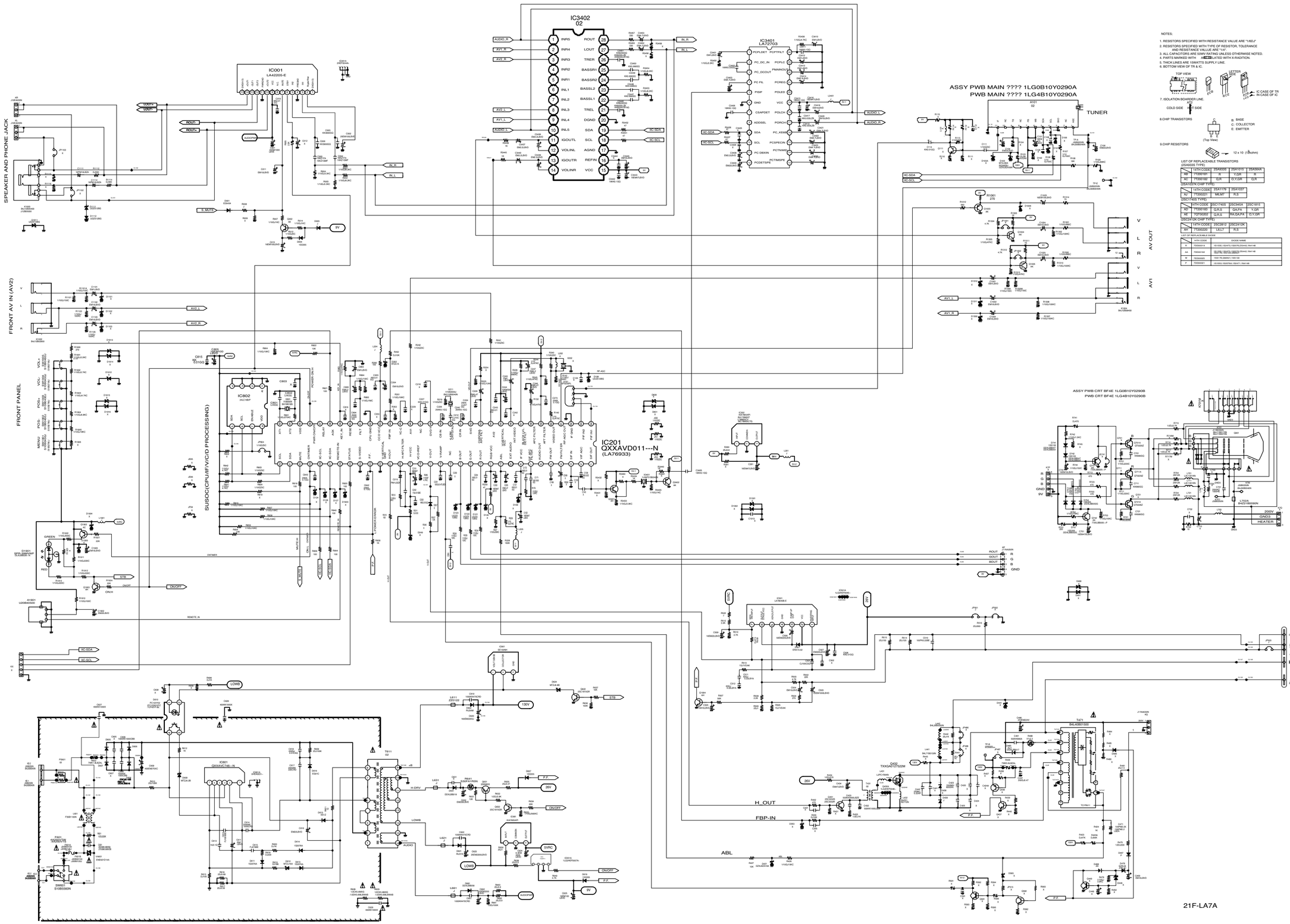

NOTES:

1. RESISTORS SPECIFIED WITH RESISTANCE VALUE ARE "1/4DJ"
2. RESISTORS SPECIFIED WITH TYPE OF RESISTOR, TOLERANCE AND RESISTANCE VALUE ARE "1/4".
3. ALL CAPACITORS ARE 50WV RATING UNLESS OTHERWISE NOTED.
4. PARTS MARKED WITH ⚠ ARE RELATED WITH X-RADITION.
5. THICK LINES ARE 10WATTS SUPPLY LINE.
6. BOTTOM VIEW OF TR & IC.

TOP VIEW

LETTER CODE

IC CASE OF TR
IN CASE OF IC

7. ISOLATION BOARDER LINE.

COLD SIDE HOT SIDE

8.CHIP TRANSISTORS

B: BASE
C: COLLECTOR
E: EMITTER

(Top View)

9.CHIP RESISTORS

12 x 10 (12kohm)

LIST OF REPLACEABLE TRANSISTORS

(2SA933S TYPE)

14TH CODE	2SA933S	2SA1015	2SA564A
AB	7120016B7	R	Y,GR
AC	7120015B7	Q,R	O,Y,GR

(2SA1162/KI CHIP TYPE)

14TH CODE	2SA1179	2SA1037
AJ	7730022T	MK,MT	R,S

(2SC1740S TYPE)

14TH CODE	2SC1740S	2SC945A	2SC1815
AD	7720018B	Q,R,S	GA,FA	Y,GR
AE	7720020B	Q,R,S	BA,GA,FA	O,Y,GR

(2SC2412K CHIP TYPE)

14TH CODE	2SC2812	2SC4124K
AH	7720020E	L,K,LY	R,S

LIST OF REPLACEABLE DIODE

14TH CODE	DIODE NAME
B	1S1555,1S2473,1S076,2SA42,1N4148
AA	1S1555,1S2473,1S076,2SA42,1N4148
M	1S1588,GMA01,1SS133
P	1S1555,1S2076A,1SA71,1N4148

THE SERVICE PRECAUTION:

The area enclosed by this line(⚠) is directly connected with AC mains voltage. When servicing the area, connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.

PHILCO PF2118	**COLOUR TELEVISION** LA7-A CHASSIS SERIES SERVICE REF. NO.

PRODUCT SAFETY NOTICE:

Product safety should be considered when a component replacement is made in any area of a receiver.
Components indicated by a mark ⚠ in this circuit diagram show components whose values have special significance to product safety. It is particularly recommended that only parts specified on the part service manual be used for components replacement pointed out by the mark.

CIRCUIT DIAGRAM NOTICE:

1. All resistance value are in ohms, K=1,000, M=1,000,000.
2. All resistance rated wattages are 1/6W unless otherwise noted.
3. Excepting electrolytic capacitors, all capacitance values of less than 1 are expressed in μ F and more than 1 are pF.
4. All capacitance rated voltages are 50V unless otherwise noted.
5. All inductance values are in μ H.
6. Voltage readings take with a "VTVM" are from point indicated chassis ground. Voltage readings taken by using NTSC colour bar signal are with all controls at normal position. Some voltage may vary with signal strength.
7. Waveform were taken with NTSC colour bar and controls adjusted for normal picture. Waveforms were taken by using a wide band oscilloscope and a low capacity probe.
8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.
9. Parts specified with "X" are not installed in this model.
10. Parts specified with "J" are just jumper wires.

11. Expression of capacitance and resistance in circuit diagrme.

Capacitance (Example)

1000 C M 2000 D
- Characteristic
- Capacitance value (220pF)
- Allowable error (±20%)
- Kind (Ceramic)
- Rated voltage (1,000V)

Allowable error: J= ± 5%, K= ±10%, M= ±20%

Kind: T, A, U, D: Electrolytic; C, K, B: Ceramic; F: Mylar film; M, N: Polypropylene; Z: Metalized paper

Resistance (Example)

1/2 N J 1.2
- Resistance value (1.2)
- Allowable error (±5%)
- Kind (M.carbon)
- Rated wattage (1/2W)

Kind: D: Carbon; N: Metalized carbon; S: Oxied metalized; W: Wire wounding; C: Solid

TRANSISTOR, DIODE AND INTEGRATED CIRCUIT TERMINAL GUIDE

C: COLLECTOR
B: BASE
E: EMITTER

A: ANODE
K: KATHODE

CHIP COMPONENTS
TRANSISTOR
DIODE
RESISTOR

PARTICULAR PARTS SYMBOL

FUSIBLE RESISTOR
NON POLE ELECTRIC CAPACITOR
POSISTER