

SUPPLEMENT

NO. 1
Dec. '70

Subject: Minor change of Model STR-6120

1. INTRODUCTION

SONY made changes on the STR-6120 to improve its electrical performance. The change, introduced here, are modifications of the front end, MPX decoder, equalizer and power amplifier circuits.

2. DESCRIPTION OF THE MODIFICATIONS

(TUNER SECTION)

(a) New Front End and RC component have been employed

To obtain a stable receiving operation, a new front end which incorporates AFC circuit, have been employed with RC filter components as follows:

Note: The schematic and mounting diagrams of new front end and RC filter are given on pages 8 to 13. Note that there are two kinds of design in new front end but they have the same part number and are interchangeable.

New Front End

FF-010BW (part Number, 8-982-592-10)

New Parts Added

<i>Reference</i>	<i>Value</i>	<i>Part Number</i>
R330	820 k ohm	1-244-721
R331	100 k ohm	1-244-743
C326	0.15 μ F (mylar)	1-105-687-12
C327	0.01 μ F (mylar)	1-105-673-12
Terminal strip		1-536-180-11

Applicable Serial Numbers

<i>For USA Model</i>	<i>For CANADA Model</i>	<i>For General Export Model</i>
82,301 and later	70,101 and later	51,281 and later

Interchangeability

New front end associated with RC filter components and old front end are mutually interchangeable.

(b) De-emphasis Changeover Circuit Added

The de-emphasis changeover circuit have been employed to change the de-emphasis time constant easily. The specified de-emphasis time constant is 75 micro-seconds in USA and CANADA, 50 micro-seconds in Europe. The schematic diagram is given on Page 15.

Parts Added

MPX decoder section

<i>Description</i>	<i>Value</i>	<i>Part Number</i>
C536, C537	0.022 μ F (mylar) and 0.0033 μ F (mylar)	1-105-677-12 1-105-667-12
S16 (slide switch)		1-514-524
Terminal strip		1-536-182

Parts Changed

MPX decoder section

<i>Description (former value)</i>	<i>New Value and Part Number</i>
C514, C515 0.068 μ F	0.047 μ F, mylar (1-105-681-12)
C516, C517 0.015 μ F	0.0033 μ F, mylar (1-105-667-12) or 0.0047 μ F, mylar (1-105-669-12)

Applicable Serial Numbers

<i>For USA Model</i>	<i>For CANADA Model</i>	<i>For General Export Model</i>
82,521 and later	70,101 and later	51,379 and later

(c) Diode Limiter Added

To eliminate harmonic distortion at high level input signal, additional limiter employed in the fm i-f amplifier section.

Note: The schematic diagram is given on pages 12 and 13.

New Parts Added

<i>Reference</i>	<i>Value</i>	<i>Part Number</i>
D212, D213	1S1555	
C233	0.01 μ F, ceramic	1-101-072
C234	20 pF, ceramic	1-101-864
R252	200 ohm	1-244-656
Terminal strip		1-536-179

(AUDIO SECTION)

- (a) To increase output power, power transformer and output coupling capacitor changed and filter capacitor for the ripple filter added as follows:

Parts Changed

<i>Description (former value)</i>	<i>New Value and Part Number</i>
Power transformer (1-441-455) C815,C915, 1000 μ F, 100V electrolytic	Power transformer (1-441-599) 2000 μ F, 100V electrolytic (1-121-734)

Parts Added

<i>Reference</i>	<i>Value</i>	<i>Part Number</i>
C19	2000 μ F, 35 V electrolytic	1-121-734

Applicable Serial Numbers

<i>For USA Model</i>	<i>For CANADA Model</i>	<i>For General Export Model</i>
82,301 and later	70,101 and later	51,351 and later

- (b) In the equalizer amplifier section, the circuit for amplifying the signal from TAPE HEAD input was deleted and another AUX amplifying facility have been employed instead.
The new mounting diagram and equalizer amplifier schematic diagrams are given on pages 6, 7 and 14.

Parts Changed

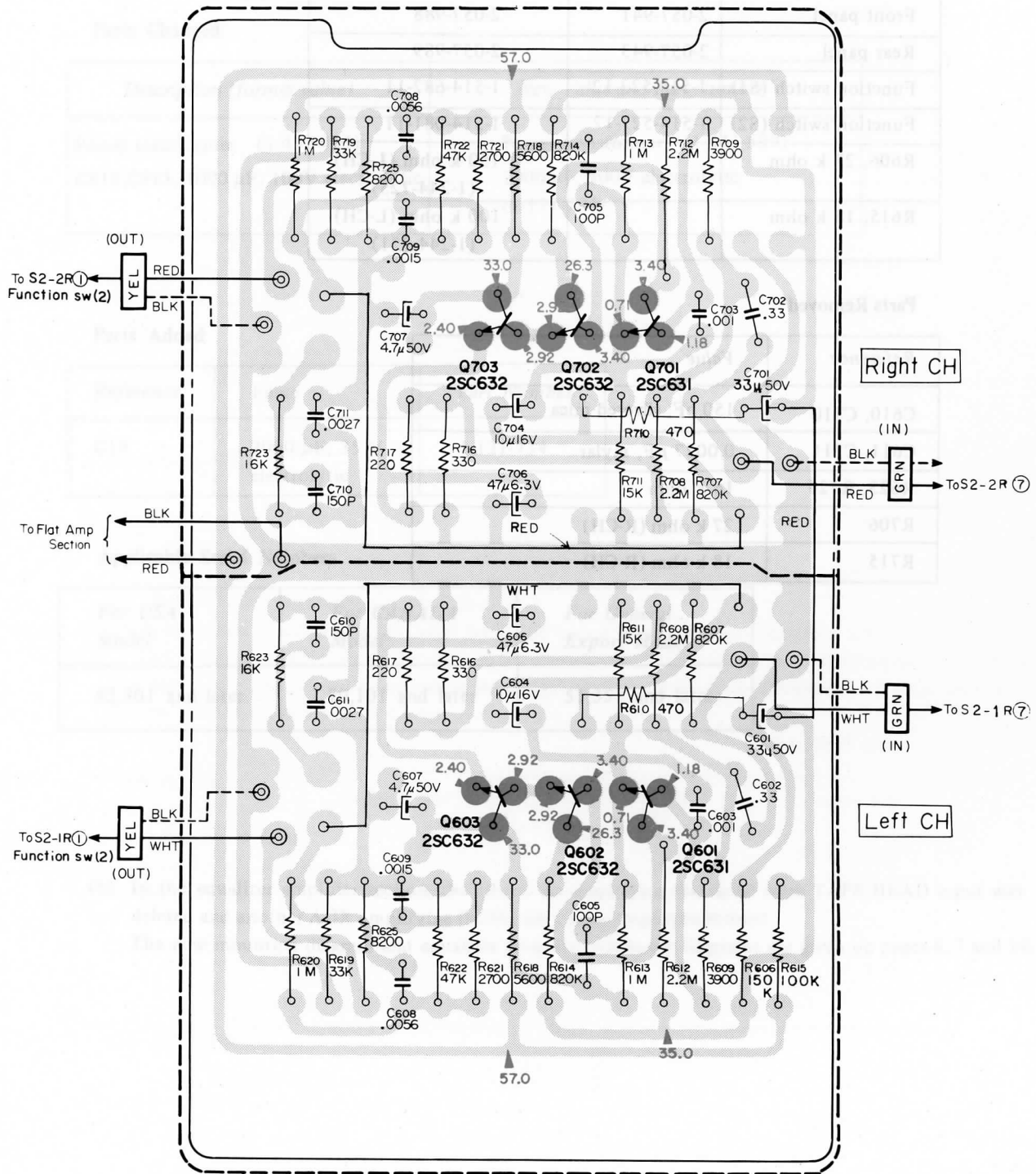
	<i>Former Part Number</i>	<i>New Part Number</i>
Front panel	2-057-941	2-057-988
Rear panel	2-057-943	2-057-989
Function switch (S1)	1-514-523-12	1-514-682-11
Function switch (S2)	1-514-527-12	1-514-081-11
R606, 27 k ohm		150 k ohm (L-CH) (1-244-725)
R615, 18 k ohm		100 k ohm (L-CH) (1-244-721)

Parts Removed

<i>Reference</i>	<i>Value</i>
C610, C710	150 pF, silvered mica
C611, C711	0.0027 μ F, mylar
R623, R723	16 k ohm
R706	27 k ohm (R-CH)
R715	18 k ohm (R-CH)

MOUNTING DIAGRAM—Equalizer Amplifier Section

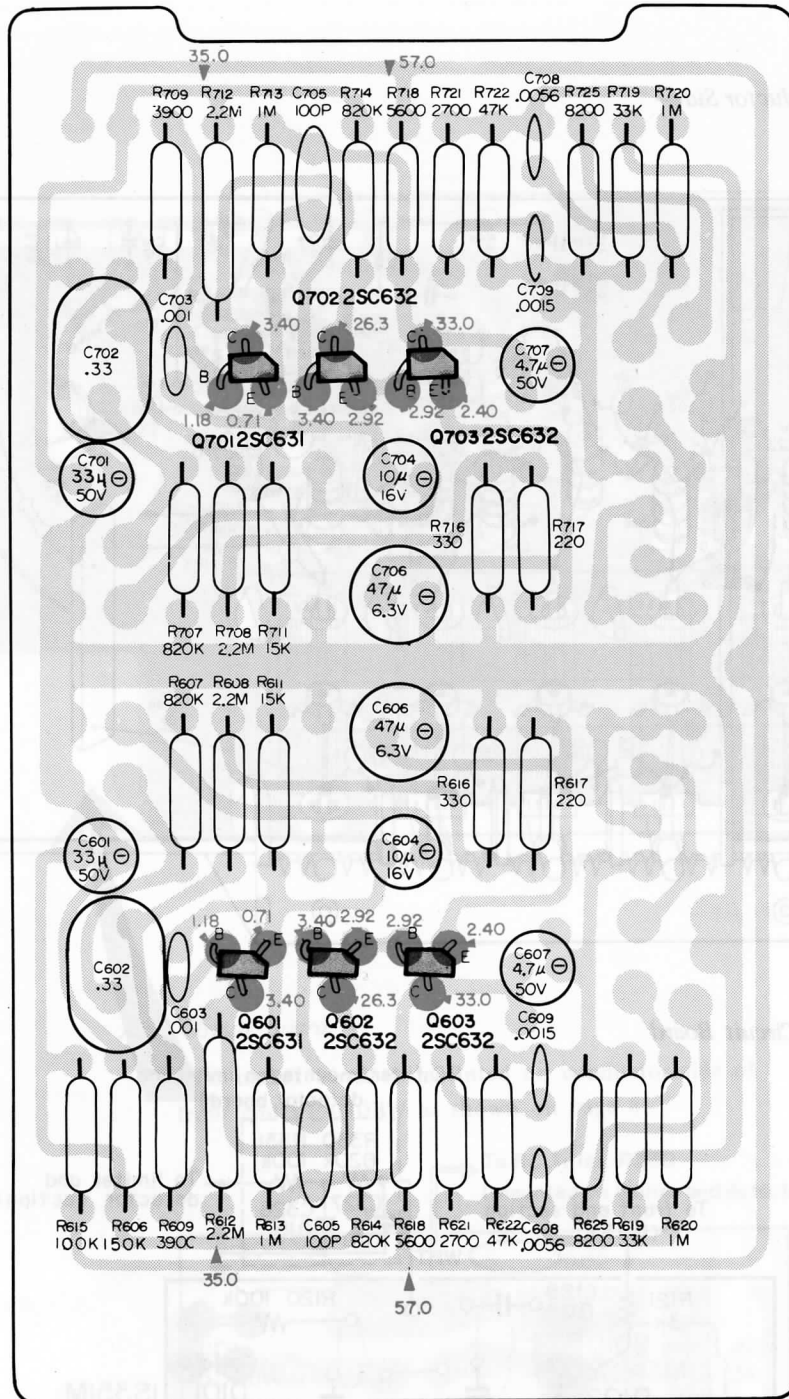
—Conductor Side—



* R610 and R710 are mounted on conductor side.

MOUNTING DIAGRAM—Equalizer Amplifier Section

—Component Side—



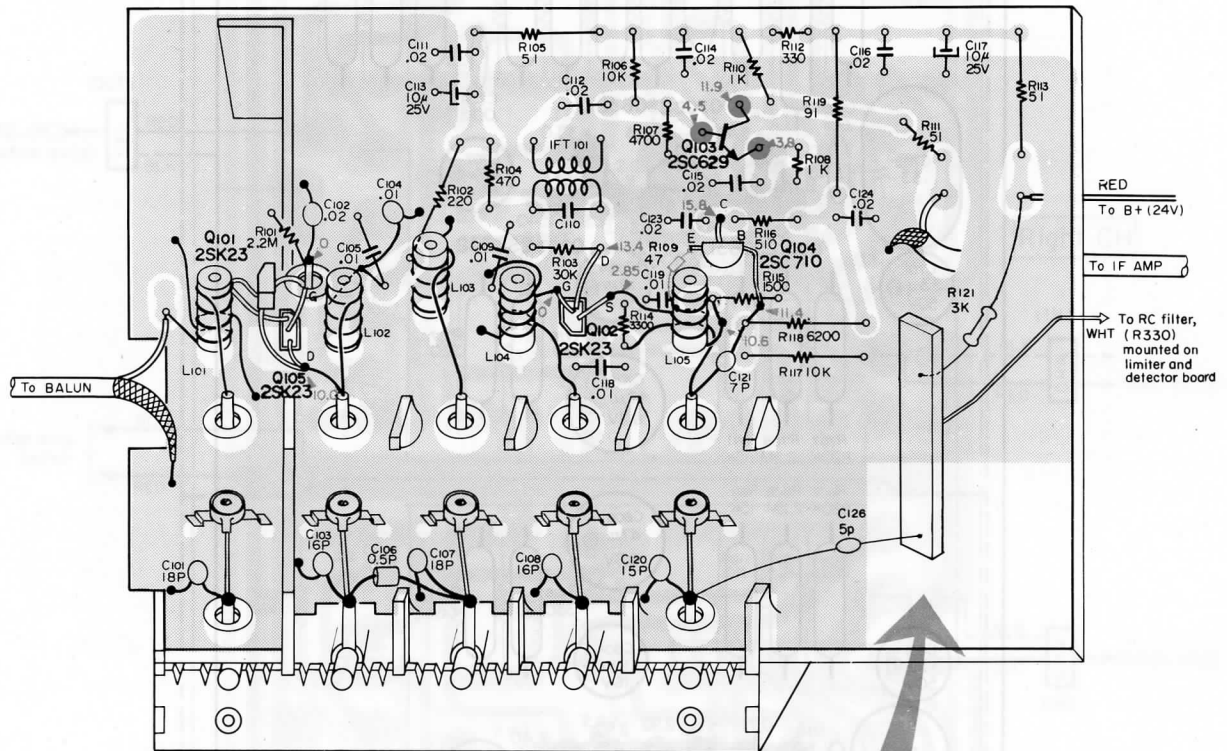
MOUNTING DIAGRAM

New Front End Section

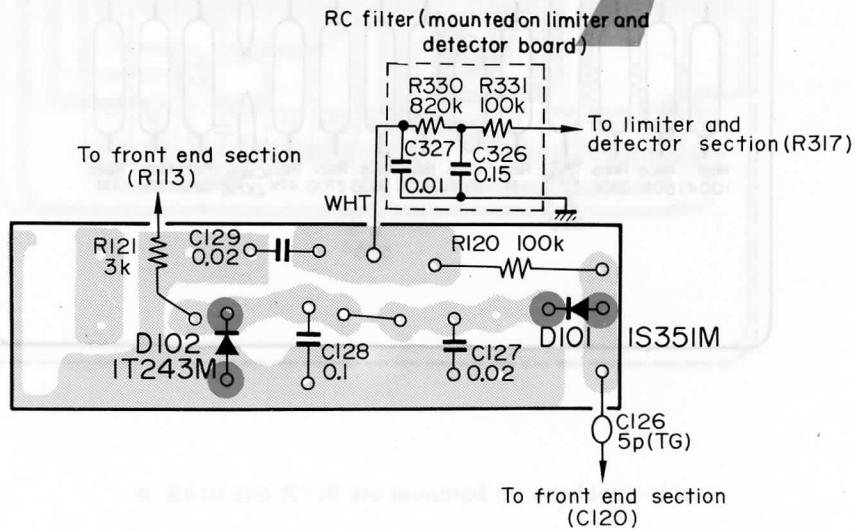
Note that there are two kinds of design in new front end but they have the same part number and are mutually interchangeable as shown on pages 8 to 11.

-Front End Section [1]

-Conductor Side-



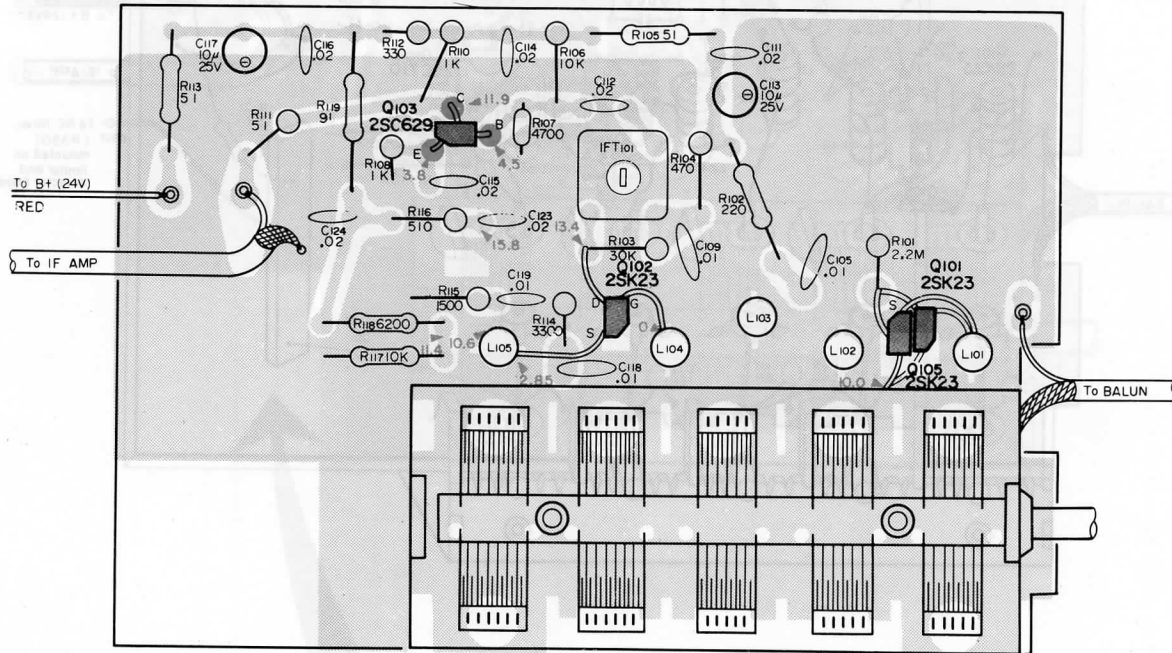
AFC Circuit Board



MOUNTING DIAGRAM

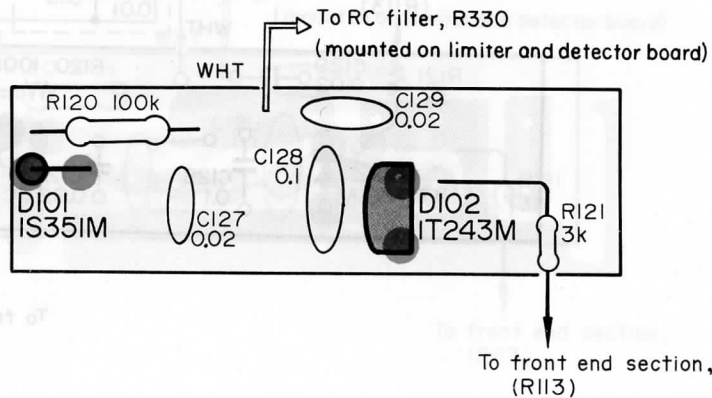
-Front End Section [1]

-Component Side-



AFC Circuit Board

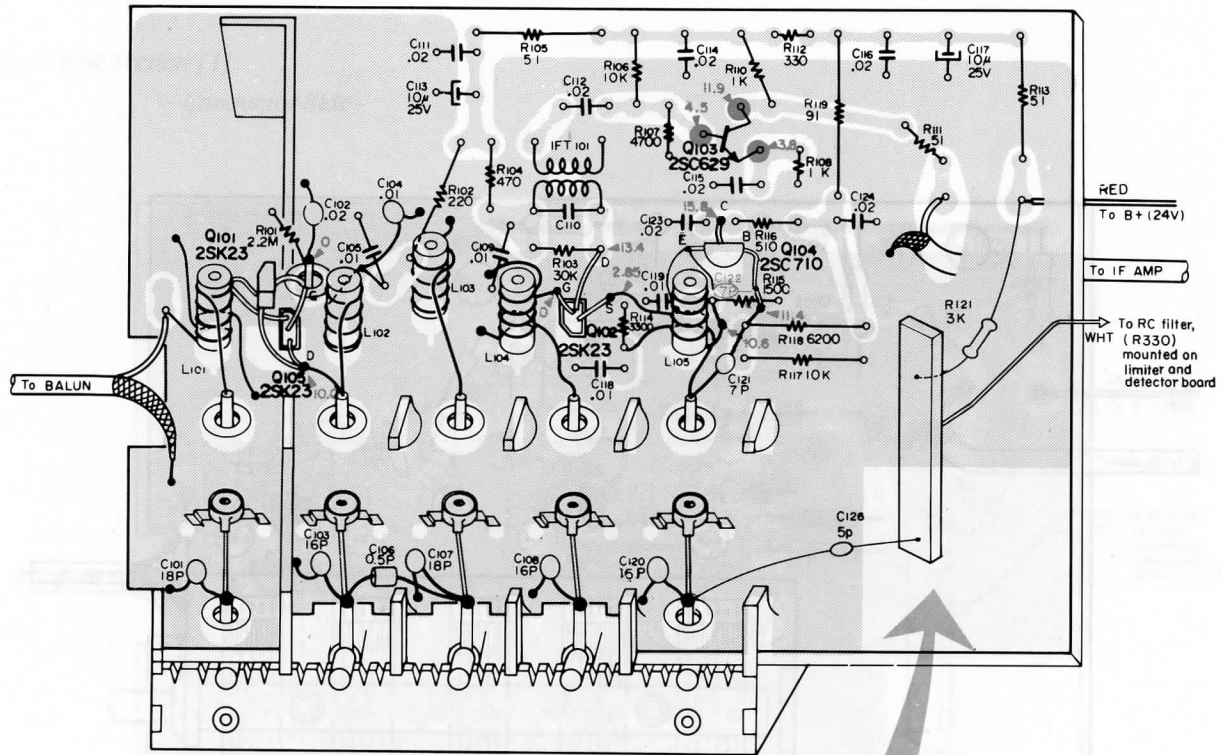
※ AFC circuit board is mounted on conductor side of front end FF-010BW as shown on page 8.



MOUNTING DIAGRAM

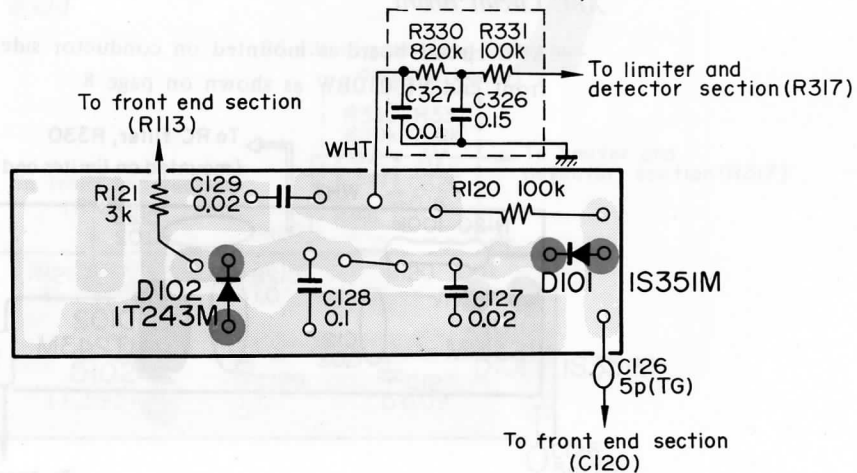
-Front End Section [2]-

-Conductor Side-



AFC Circuit Board

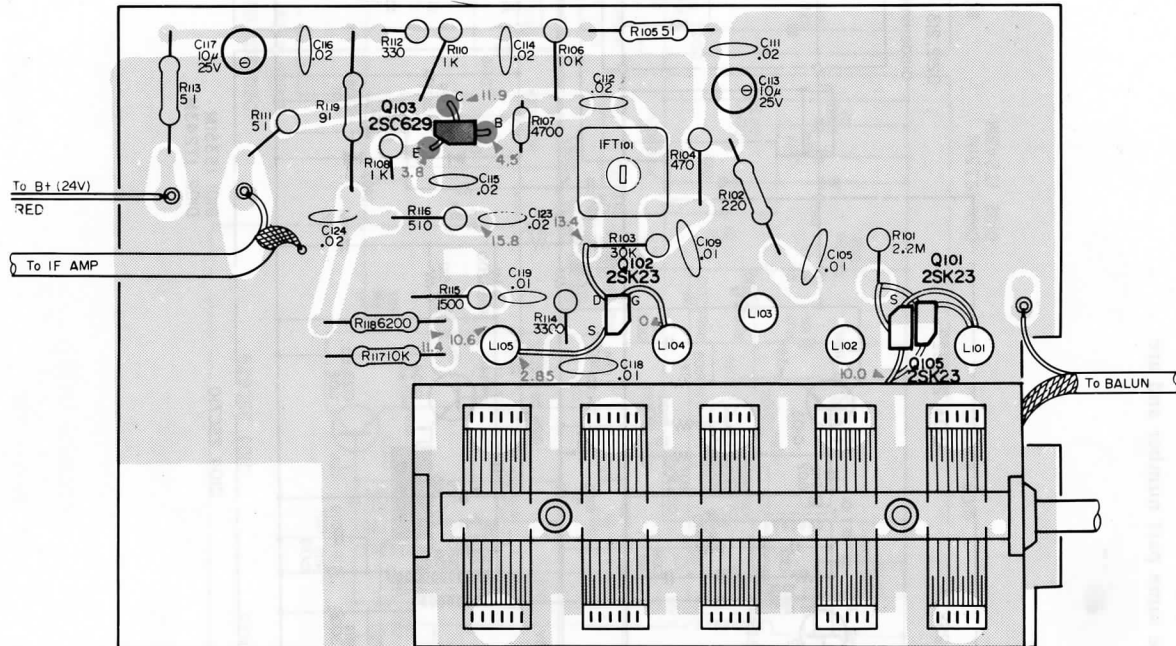
RC filter (mounted on limiter and detector board)



MOUNTING DIAGRAM

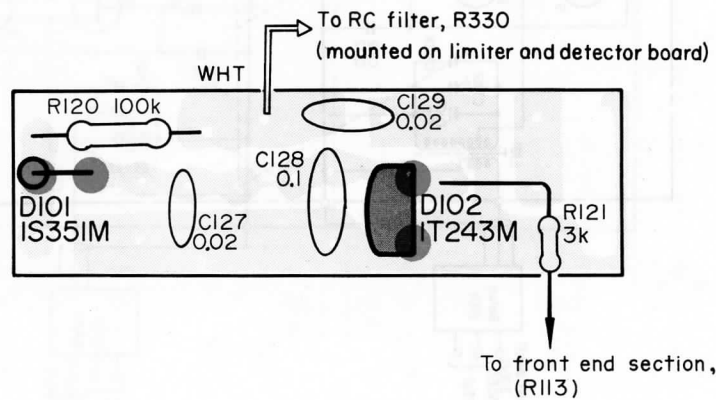
-Front End Section [2]

-Component Side-



AFC Circuit Board

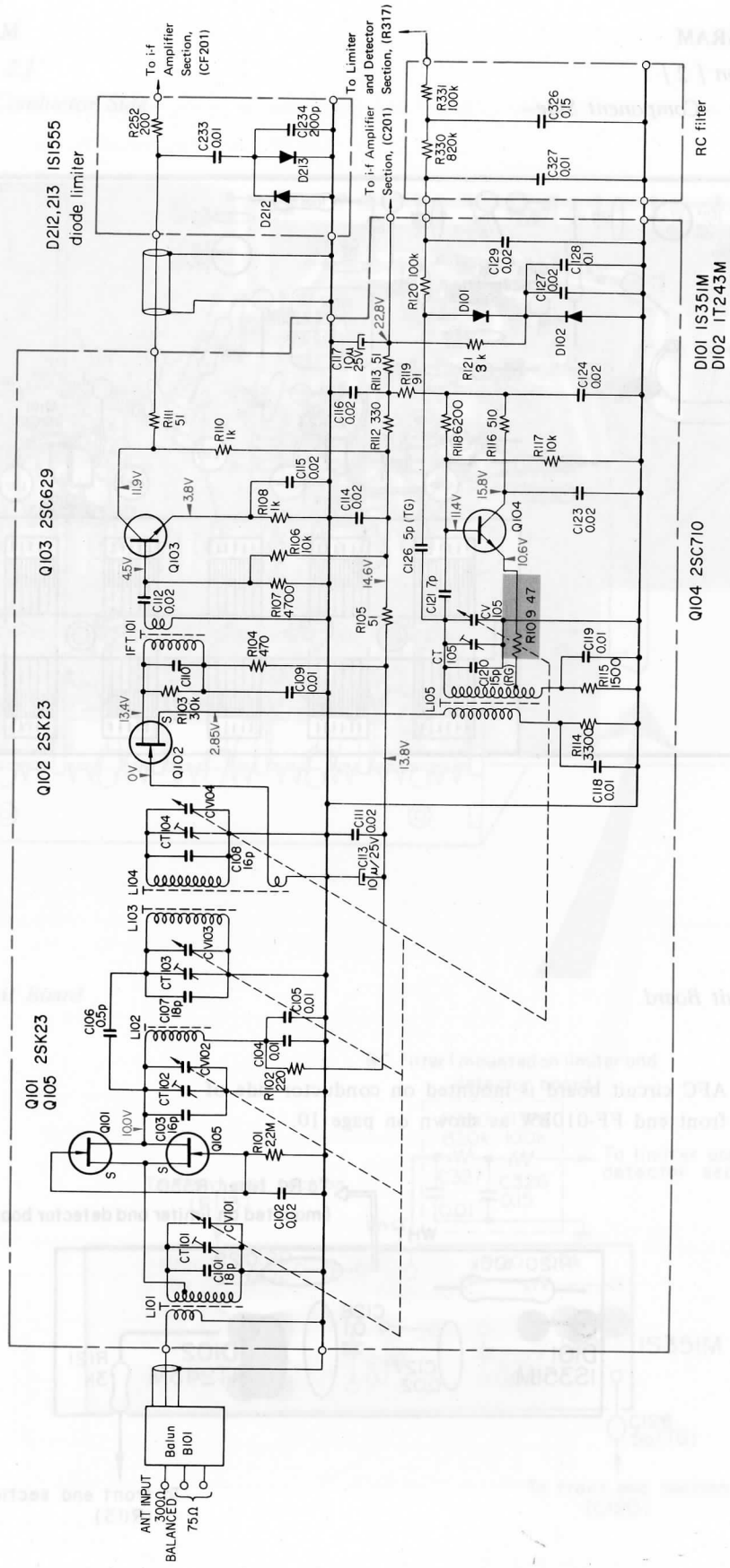
* AFC circuit board is mounted on conductor side of front end FF-010BW as shown on page 10.



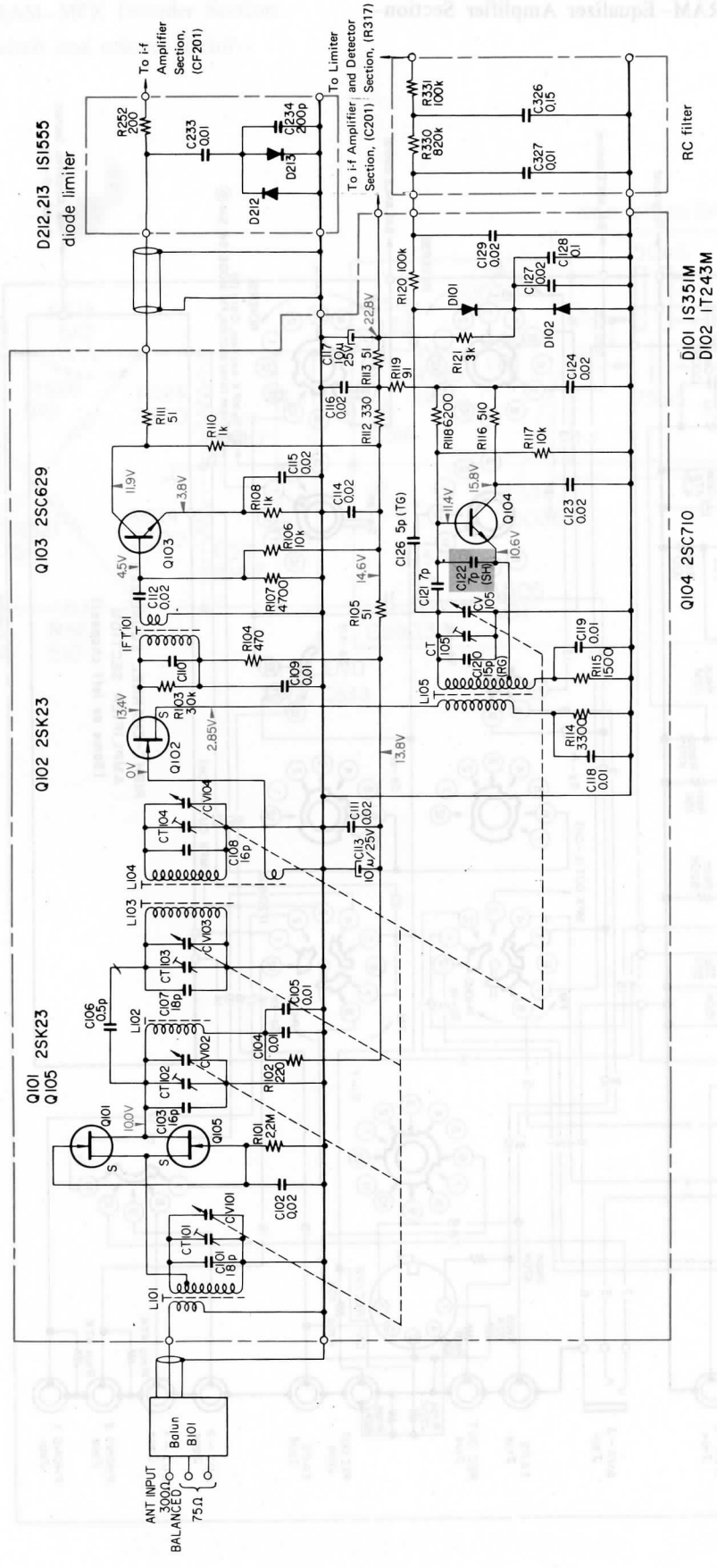
SCHEMATIC DIAGRAM
New Front End Section

Note that there are two kinds of design in new front end but they have the same part number and are mutually interchangeable as shown on pages 12 to 13.

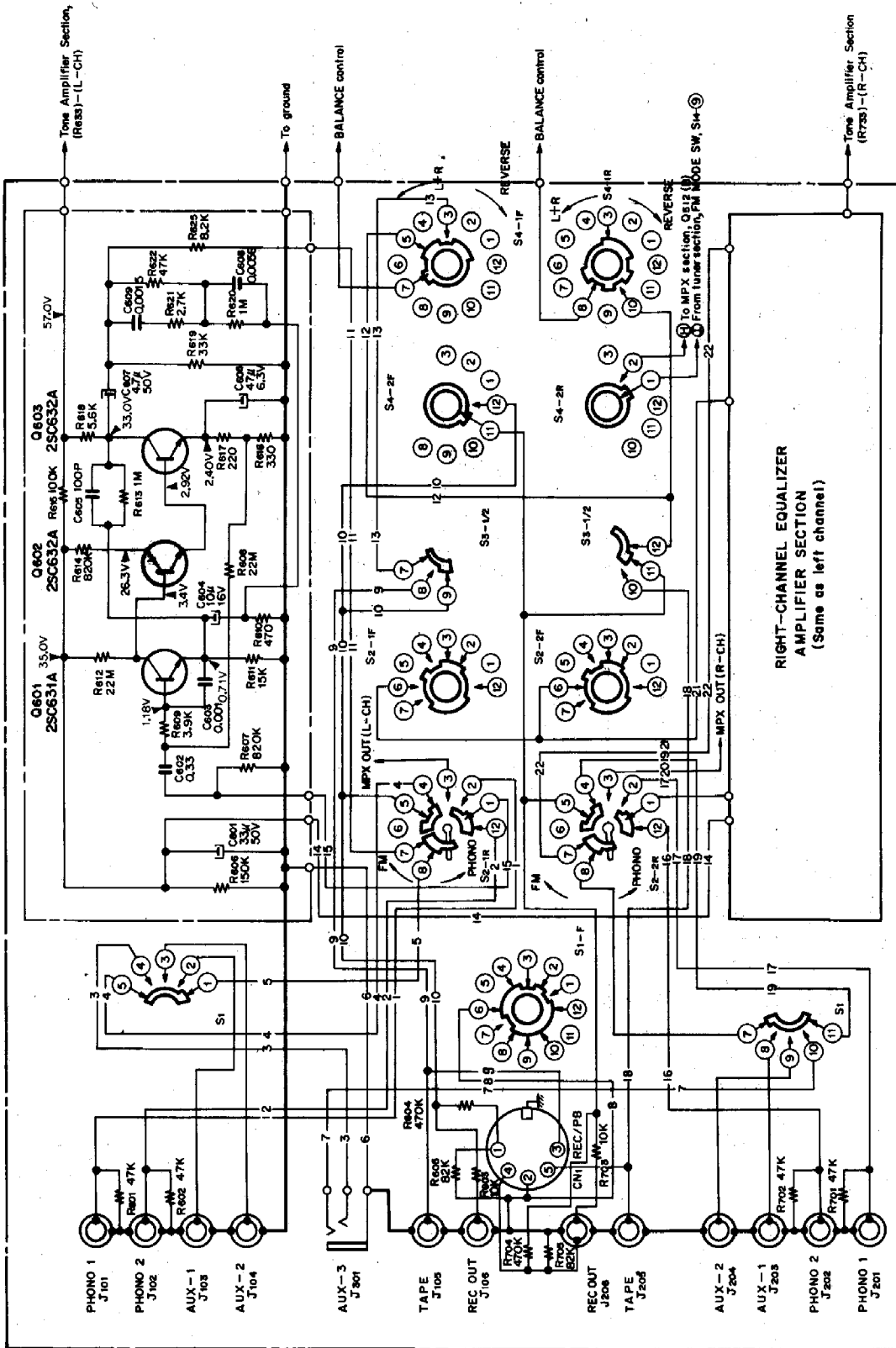
-Front End Section [1]-



SCHEMATIC DIAGRAM—Front End Section [2]

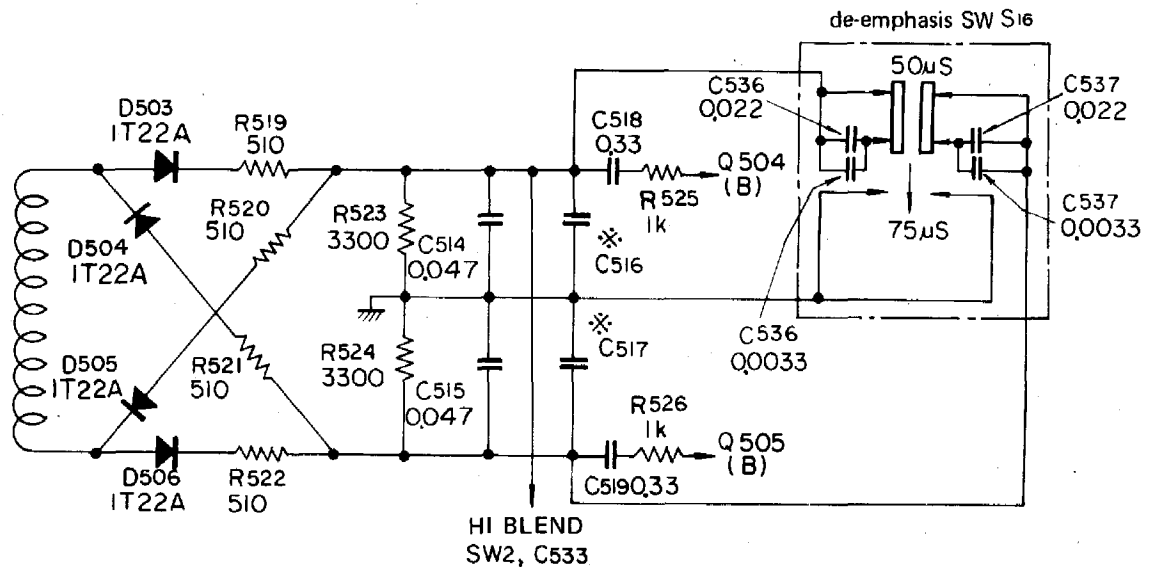


SCHMATIC DIAGRAM—Equalizer Amplifier Section—



Symbol	Description	Position	Symbol	Description	Position
S1	FUNCTION (1) SW (PHONO2-AUX1-AUX2-AUX3)	PHONO-2	S3	MONITOR SW (SOURCE-TAPE)	SOURCE
S2	FUNCTION (2)SW (FM-FUNCTION1-PHONO1)	FUNCTION (1)	S4	MODE SW (CHECKL-CHECKR-REVERSE-STEREO-LTR-LEFT-RIGHT)	STEREO

SCHEMATIC DIAGRAM—MPX Decoder Section
—Additional AFC Switch and related circuit—



MEMO

SONY CORPORATION