Vetelec mixers third generation

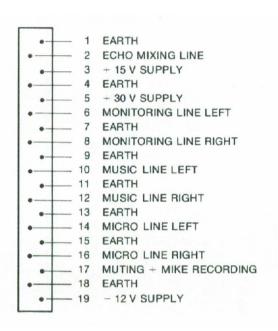
Modules documentation

Contain: original tech specs of Vetelec Third generation modules + schematics of some modules.

Warning: schematics drawings are reverse-engineering of modules, and may contain errors!

Only for repair help purposes!

Standard bus connectors:



Attention!

Pin N° 7 is not earth on every models, see power supply schematic.

Is it an evolution? On this mixing table this pin is used as a « start » command.

FM Tuner Units

CONTROLS

Volume

Only with TG.112.

Progressive volume control of the signal fed to the mixing device.

Monitoring

Only with TG.112.

Progressive volume control of the signal fed to the monitor.

Stereo mono

Mono audition can be preferable, especially in fringe areas. Push the selector button for mono, release for stereo audition.

AFC

With regard to its function, the Vetelec FM Tuner Unit is to be considered a source which feeds its output signal directly to the mixing device of a Tone Control Unit (TG.312 or 313), with no intervention of any input unit.
On the other hand the FM Tuner Unit fits per-

fectly in with the Pre-Amplifier Unit (TG.231).

Examples: Intim-Line

For optimum tone quality, release AFC button and tune in with the visual aid of the tuning indicator; then push the button: Automatic Fre-

quency Control will take over for the highly ac-curate tuning the indicator alone is unable to af-Tuning ford.

funing control visualized by a precise tuning Large diameter tuning knob with built-in fly-

POWER

PRE

FM TUNER

indicator and a 15-LED scale.

16.5351

T6-231

TE-111

LED SCALE

STERED POWER AMPLIFIER

Orchest-Line

SUPPLY

DUTPUT

FM TUNER AMPLIFIER

MICAD

MICRO

MICRO

MICRO

110-011

TE-523

16-231

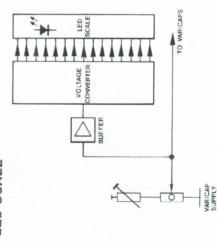
16-111

16-224

16-223

TG-222

16-221



POWER

CONTROL

FM TURER

MICRO

INPUT

STERED POWER AMPLIFIER

Disco-Line

16.011

16-312 TG-313

16-112

TG-221

TG-211

rable tuning visualizing. No pointer, no cords, no backlash, no shifting since the varicap voltage needed for tuning is directly converted into the LED display. The sparkling 15-LED tuning scale has been designed with a view to a convenient and unalte-

CONNECTIONS

External antenna coax input 75Q.

Internal output to the mixing device via multipin connector lines 10 & 12. With TG.112 only, internal output to the monitor via lines 6 & 8.

SPECIFICATIONS

750

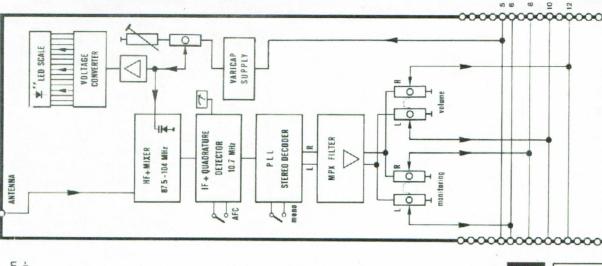
759 asymetric	87.5 to 104 MHz			1.4 μV	0.8 µV	1.4dB	180 kHz at -3 dB			70 dB	68 dB	30 Hz to 15 kHz	+2 dB		better than 0.3 %	better than 1.0 %		better than 40 dB	better than 35 dB		30 mA	80 mA	5 mA	
											-		-											
			£								,													
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Φ			3	S/N ratio 26dB)				0	_			0				,				C				
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ā	7	S	2	Z	9	0	. Ž	¥	E	C	3	_	ō	_	C	2	LD.	-	2	Ü	121	+15 V	+30 N	
Ē	E	9	4	S	=	5	5	d	E	Ĕ	Ste	ž	ati	2	Ĕ	ste	60	at	a	er	1	+	1	
E e	Ξ	B			E	d	č	E			-	90	>	E	_	-	0			3				
Antenna impedance	Tuning range	Usable sensitivity			Limiting point	Capture ratio	Band width	Signal to noise ratio				Frequency response	Deviation	Harmonic distortion			Stereo separation			Power consumption				
-		_			_	~	-	-				Total Control	_	-						-				





TG112

BLOCK DIAGRAM





Although both TG.111 and 112 versions are interchangeable, the FM Tuner TG.111 is particularly suitable to combine with a Pre-Amplifier Unit in Orchest or Intim-Line sets, while the TG.112 has specially been designed for Disco-Line mixing consoles.

no schematic yet for FM tuner!

Stereo Input Units

output signal is fed to the mixing device of a Tone Control Unit (TG.312 or 313). There is also a branching to a Monitor Unit (TG.911 or 312) for The Stereo Input Units get input signals from either electronical or mechanical sources. The signal monitoring through headphone.

CONTROLS

TG - 211 AUX input only

Monitoring



of the signal fed to the Monitor Unit. Progressive volume control

Preset



allowing the Fader to be used along its full length, Adjustable volume limiter even at low output level.

Volume

Volume control of the output signal by Vetelec Dust and waterproof contacts make up twin, stereo channel coupled, 3dB step potmeters. Fader.

EQ input only FG - 212

All controls have the same functions as with TG.211.

TG • 213 Both AUX and EQ input.

Monitoring

	The "monitoring"	con
	is also a selector; its po	its p
	tion determines	*
ā	signal, either AUX or	0
	is fed to the Monito	or.

Preset

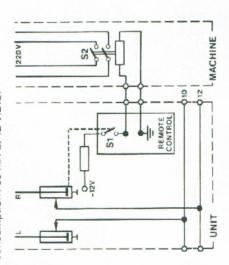
te	dead
	급
1	4
	1
	111

d, through preset control of Fader, to the mixing Volume The Fader controls the output of this particular signal that has been selected by the "preset»

Consequently it is possible to monitor one signal, controlled by the "monitoring" potmeter, while feeding the other signal, controlled by Fader, to the mixing device for playback.

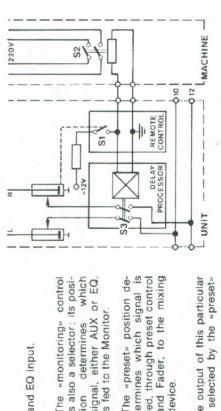
REMOTE CONTROL

Vetelec-supplied machines - record players, tape control. Other machines can also be equipped or cassette recorders - are fitted with a remote with remote control devices. Maximum power consumption: 50 mA at 12 V.D.C.



contact and charges the machine's control relay with - 12 V, opening \$2 contact. In off position the Fader closes the S1 reed-

When fading in, S1 interrupts coil tension, thus closing S2 contact and starting motor. In order to mute the ennoying rush-in signals, the unit can be fitted with a Delay Processor.



When fading in, S1 interrupts both relay coil and delay processor tension. While S2 contact starts the machine, S3 delays the machine's signal during 0,3 seconds - the time needed for the motor to get on speed. Other delay times optional.

CONNECTIONS

Remote Control



mote controlled machine External output to the reby means of a DIN plug.

AUX/EQ



External DIN plug input for either linear (AUX) or nonlinear (EQ) signals

nector lines 6 & 8, and to the mixing device via lines 10 & 12. Internal output to the monitor via multipin con-

SPECIFICATIONS

EQ input

	50 kΩ	2mV	34 dB	+ 1 dB		74 dB
			+	*		
p						
a						-
2					0	,
sta			Overload capacity		atic	-
Ø	ဗ္ဗ	•	5		-	4
as	an	-	pa		ise	rve
0	Bd		CB		2	7
2	d	Ę	D	C	0	Z
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4	=	S	T	<u>a</u>	8	=
₹	a	ē	X	0	O)
	=	S	0		S	

AUX input

50 KΩ	240 mV	15 Hz to 30 k	± 1dB	85 dB	200
					-
	,				
					-
			-		
nput impedance	Sensitivity	Frequency response	Deviation	Signal to noise ratio (DIN curve A)	

22 mA Harmonic distortion better than 0,05 % Power consumption

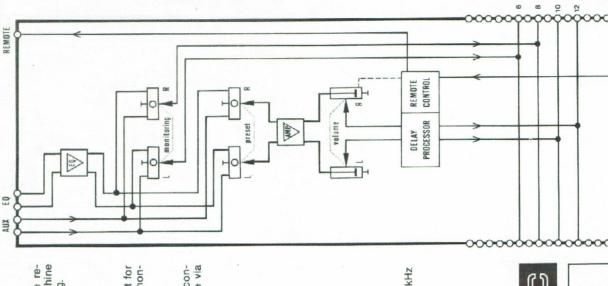


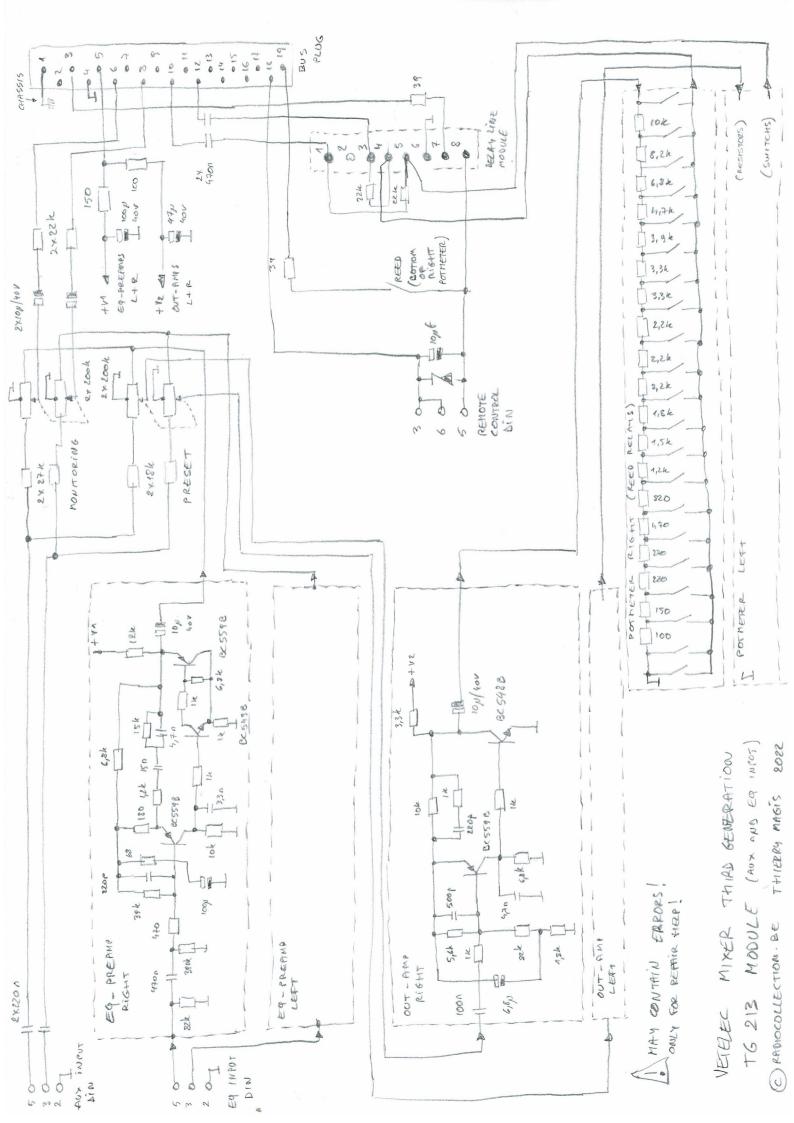




TG 213

BLOCK DIAGRAM





Tone Control Unit

units. The output signal is fed to the stereo power amplifier. There is a recording output for the music signals and another one for the mixed music + micro signals. A mono output has been The Tone Control Unit gets signals from the input (Micro & Music) or source (FM Tuner e.g.) provided for to operate a light modulator.

CONTROLS

the Twin high-precision VU-meters visualise stereo output signal.

Progressive volume control of the signal fed to the CCD Echo Unit.

Potmeter controlling the sensitivity of the Automatic Muting Control (AMC)

Time

Potmeter controlling the music signal's fadingin time after muting.

the of Potmeter controlling the depth level

Pushing the «manual» button simulates micro signal action on AMC. For adjusting the threefold sense/time/depth control or hand music signal, when muted. Manual

tual earth, are infinitely amplified and fed back to the input node, so as to result in a 1V output. As the input voltage is infinitely low, a nearly unlimited number of input units can be connected

without any noticeable influence on the output

signal, which means: without any technical in-

tervention.

The various imputs, previously reduced to a vir-

NPUTS

Tone Control

operating.

Seperate bass & treble control of the mixed music signals by Vetelec Fader.

CONNECTIONS

Internal inputs

AUTOMATIC MUTING CONTROL

Music signals coming from various Music Units via multiplin connector lines 10 & 12. Micro signals coming from various Micro Units

> The Vetelec Tone Control Unit features an absolutely unique threefold adjustable muting device, which deadens the music from the moment one speaks into the microphones.

via lines 14 & 16.

Micro signals coming from one or various Micro signals via a special "mutting" line, are converted into a D.C. voltage; when reaching a previously determined turn-over point, it operates a level detector activating the muting device.

Mixed music signal fed to the CCD Echo Unit

via connector line 2.

nternal Output

via line 17

ight Modulator

to a dreadful roaring.

The time needed for the music signal to reach its normal level after muting, is adjustable from point, is adjustable from, let's say, a fingersnap The sensitivity i.e. the position of the turn-over

0.25 to 2.0 seconds.

SIGNAL-3 EARTH-2

DIN plug to Light modulator.

TG313

Music Recording The depth level the music signals are muted to, can be adjusted from $-3\mathrm{dB}$ to $-2\mathrm{6dB}$.



to a hand-operated muting device, which supplies a D.C. voltage, simulating micro signal im-What's more, the automatic control is matched

pulses and activating the muting device

DIN plug feeding only the mixed stereo music signal to a tape or cassette recorder.

Mike + Music Recording



music signal to a tape or DIN plug feeding 1 mixed stereo micro cassette recorder.

Output 1 & 2

LEFT -1-

the ouptput level. That's where the electronic Level Stabilizer comes in.

Normally each additional input would reduce

EVEL STABILIZER



The TC has two DIN plug connections for feeding stereo music mixed micro + to two power amplifiers. signals

SPECIFICATIONS

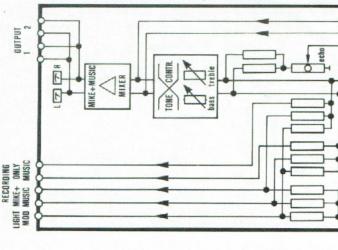
± 20 dB at 70 Hz ± 20 dB at 8 kHz	1000 mV at 1 kΩ max 7000 mV 90 mV at 6.8 kΩ 330 mV at 33 kΩ	 3 dB to - 26 dB 250 msec. to 2 sec. 	10 Hz to 30 kHz ± 1 dB	50 mA 15 mA 60 mA
BassTreble	Power Amplifier output Recorder output Light modulator output	Muting depth	Frequency response Deviation Total harmonic distortion	Power consumption - 12 V + 15 V + 30 V

AMC+MIKE REC. MIXER

MUSIC MIXER

Muting signals coming from various Micro Units

BLOCK DIAGRAM

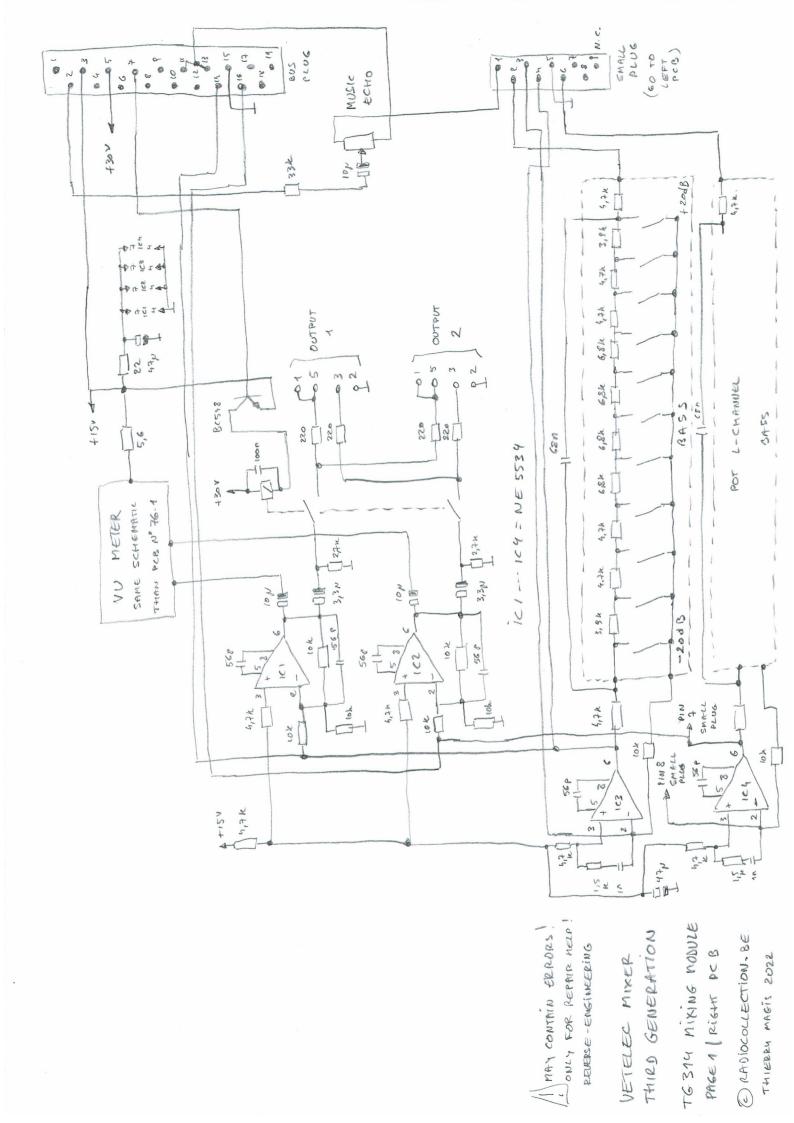


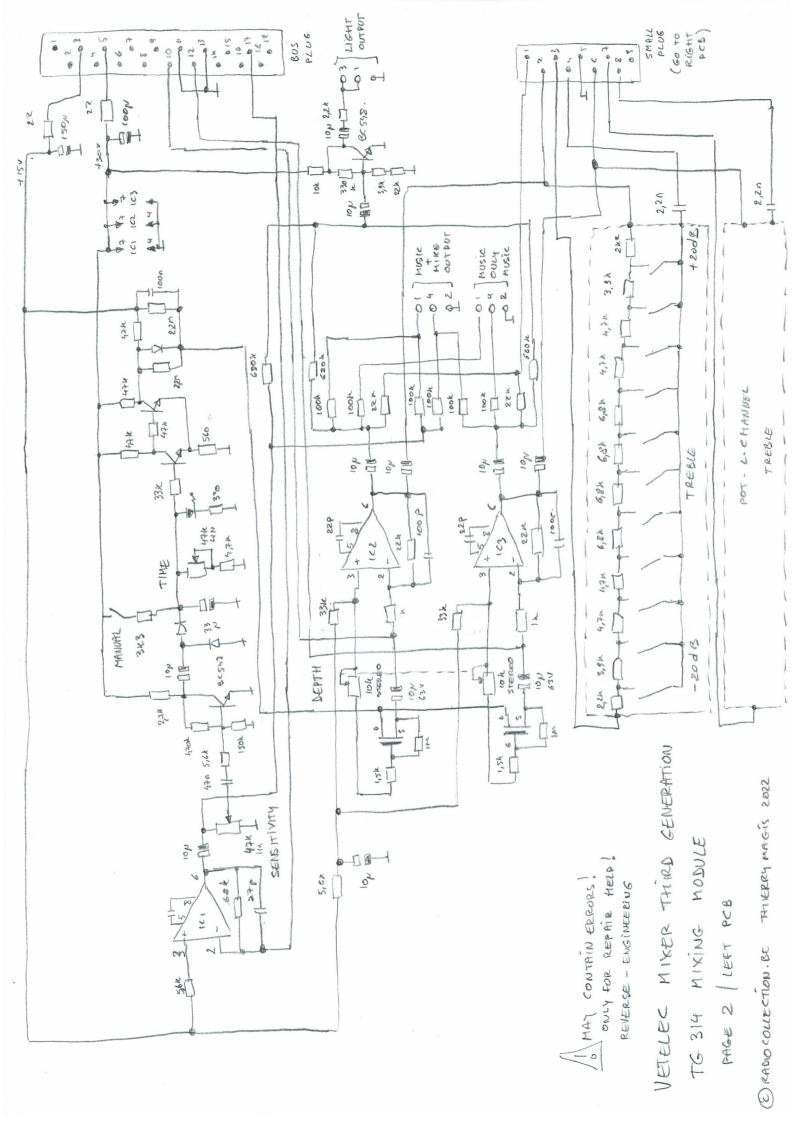
1000 mV at 1 kΩ	90 mV at 6.8 kΩ 330 mV at 33 kΩ	- 3 dB to - 26 dB 250 msec. to 2 sec	10 Hz to 30 kHz ± 1 dB	better than 0.05 %				
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00	3e	2 2	-re Cot	#	200			
	Power Amplifier output 1000 mV at 1 kΩ							





10 72 4 16





Micro Units

acoustical source through a microphone. TG.223 Each Micro Unit gets its input signal from an & 224 with both Mike and Aux input can also get micro signals are not to be fed to a central TC which can be part of either a TC Unit (TG.313 or device. They only need mixing in a mixing control. 312) a micro Output Unit (TG.523) or even a Power signals from mechanical or electronical sources Amplifier Unit (TG.S351).

CONTROLS

FG - 221 & TG - 222

Echo

the CCD Echo Unit. The CCD's total input level is Progressive volume control of the signal fed to watched by its own Peak VU-meter.

The "monitoring" control determines the volume of the signal fed to the Monitor. By using the potmeter as an on/off switch, one can monitor each Micro Unit, say: each voice or instrument, separately. As the monitoring control is branched after the volume control, the sound engineer is able to make up the orchestra's balance, on the understanding that all monitoring controls are entirely open, or at least, that they are all in the same opening position.

Treble & bass

Two separate potmeters control treble & bass tones, according to the individual timbre of each voice or instrument

Preset



allowing the preamp tone control to be driven within dynamic TG.222 version is Progressive volume preset optimum range. its

fitted with an Overload Detector: when lit, it that the dynamic range has been points out exceeded.

Volume

Volume control of the output signal fed to the central mixing device. The Vetelec Fader features dust and waterproof contacts that make up a 3 dB step potmeter

TG • 223 & TG • 224

Preset



lume control but first af all a selector that chooses either the mike or the aux input The preset is not only a vo-

All other controls have the same function as with respectively TG.221 and TG.222. It is clear that they refer to this particular signal that has been preselected by the "preset" knob.

LED PEAK VU-METER

to the central mixing device via lines 14 & 16

and to the AMC via muting line 17.

SPECIFICATIONS

Mike input

By way of the internal multipin connector: to the CCD Echo Unit via line 2, to the Monitor Unit via lines 6 & 8,

Internal outputs

This VU-meter, figured by two red, one orange and four green LED's visualizes the volume of the ble howling produced by acoustical feedback (Larsen effects). Really, even with very complex sound systems, the LED Peak VU-meters points at signal fed to the central mixing device. Contrary to mechanical VU-meters, the LED display indicales even very short peaks. Most of all it makes up the long looked-for remedy against the unbearaa glance to the "guilty" microphone!

For symmetrical or asymmetrical microphone.

15 KO

Input impedance

1 mV

10 Hz to 20 kHz ± 1.5 dB

12 dB

40 dB

Preamp overload capability

Frequency response

Deviation

Sensitivity

IC overload capability

Signal to noise ratio

(DIN curve A)

64 dB

OVERLOAD DETECTOR

that allows the optimum use of the units full even for a short time, the overload LED lights up for a well-defined duration. Another Vetelec feature is the Overload Detector, Everywhen the preamp tone control is overdriven, dynamic range in all circumstances.

CONNECTIONS

Remote Control



External output to the remote controlled machine by means of a DIN plug. Only with TG.223 & 224.

out notice.

provement, the Company reserves the right to alter the specifications of any equipment with-

Power consuption + 30 V.D.C. TG.221 & 223 22 mA

TG.221 & 223 TG.222 & 224

45 mA

± 19 dB at 100 Hz ± 21 dB at 7 kHz better than 0.05 %

.

Total harmonic distortion

Treble Bass

80 dB

(DIN curve A)

10 Hz to 30 kHz ± 1.5 dB

180 mV **00 kg**

.

nput impedance

Aux Input

Sensitivity

Frequency response Signal to noise ratio

Deviation

Mike



Symmetrical microphone via Asymmetrical microphone DIN plug pins 1 & 3. /ia pins 1 & 2.

Aux

External Aux input via DIN plug pins 2 & 3. Only with TG.223 & 224.

EARTH-2-

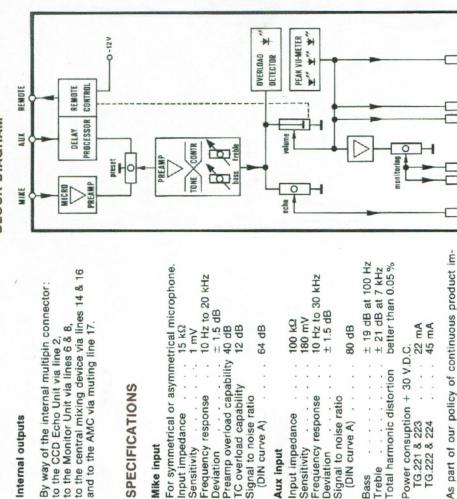
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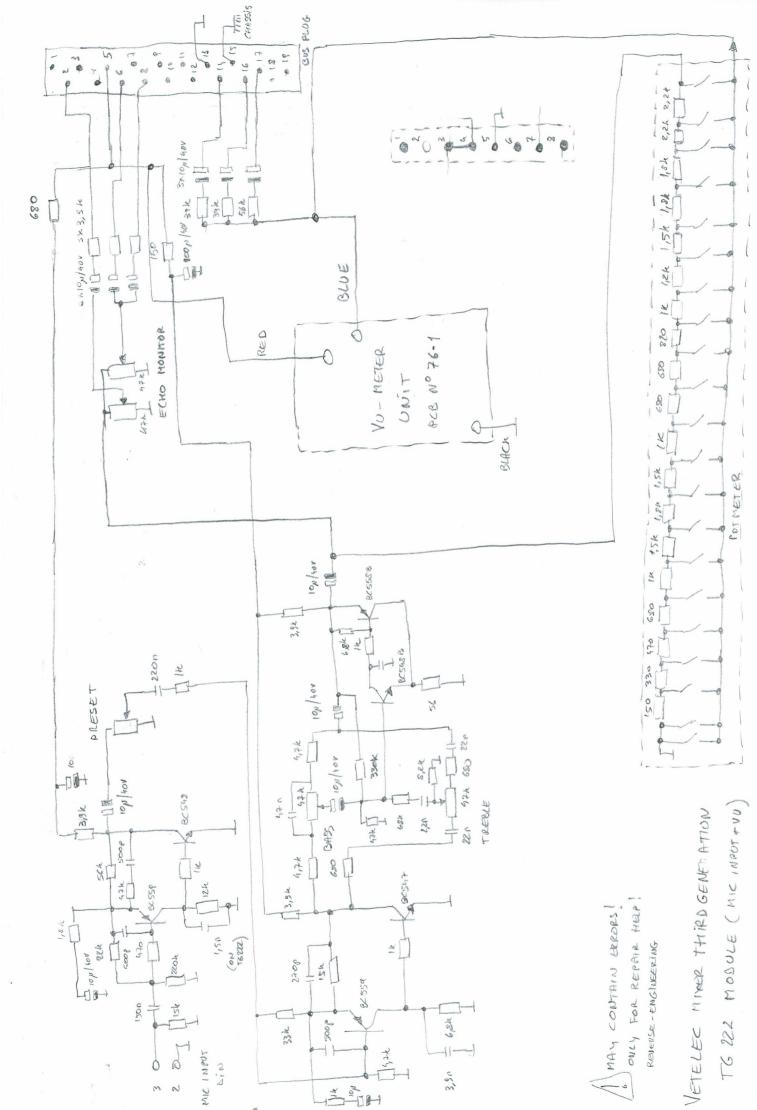
External Mike input.

1 18

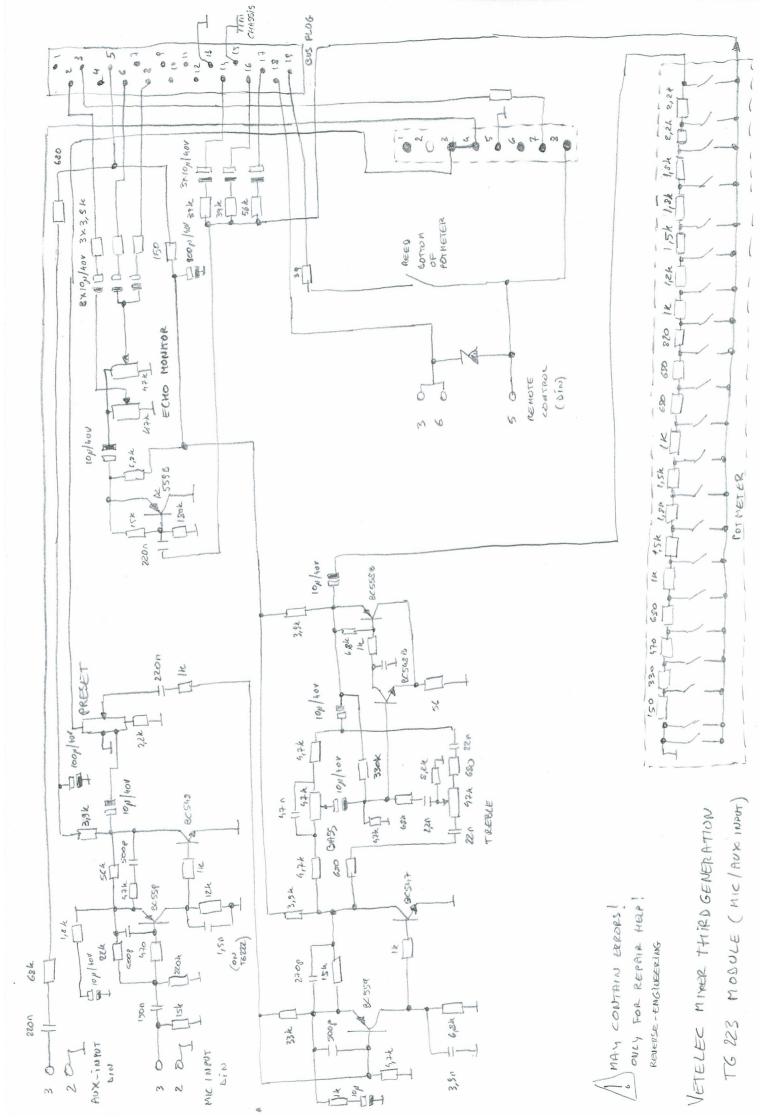
TGSS24

BLOCK DIAGRAM





(3) RADIOCOLLECTION. BE THIERRY MAGIS 2082



@ RANIOCOLLECTION. BE THIERRY MAGIS 2022

echo signals to both music and micro inputs, this in a purely electronic way, without intervention The CCD Echo is a «special effects» unit that adds from a tape recorder, echo chamber or any other mechanical component.

in the first place the CCD Echo Unit grafts an echo upon micro signals, coming from various Micro and feeds the compound signal to a final mixing device (Tone Control Units TG.312 and TG.313 or Units through their individual "echo" controls Micro Output Unit TG.523).

in the same way it picks up music signals from the music mixer that forms part of a TG.313 Tone Control Unit, to feed the composite music + echo signal to the final mixing device of that very TG.313 unit.

CONTROLS

Panorama

n a stereo sound system the echo signals are control allows the signal to slide progressively from one channel to the other. Locating the echo in space is now possible, by simply adjusting the equally spread over both channels. "Panorama" pan-potmeter.

Monitoring

Echo signals are to be monitored, just the same as are basic input signals, the more so as the CCD phone allows pre-setting all these controls: delay Echo features great diversity of adjustment possibilities. Monitoring the echo signals by headtime, reverberation and complex delay.

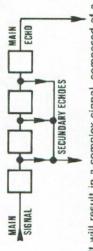
The "monitoring" knob determines whether the echo signal is fed to the Monitor, and controls its volume

Volume

proportion largely contributes to determine the nature of the effect to be acheived. Indeed, even if n nature echo signals are always weaker than the main signal, with CCD the echo signal can be the ween main signal and echo signal volume. This stronger one, thus creating a very remarkable The «volume» knob controls the proportion bet-

DELAY LINE CONTROLS

Imagine we feed a signal to a delay line, made up of four delay buckets, with a branching after each of the first three buckets. Like this:



It will result in a complex signal, composed of a main signal, three secundary echoes and one main echo. Let's visualize it as follows:



When feeding back this compound signal, we'll achieve another, even more complex signal, that would look like this



There are a lot of adjustments that can be made to such a delay line.

First of all we can control the time needed to once cross the line: we call it "delay time". We can also determine how many times the complex echo Finally we can adjust the volume proportion between the main echo and the secundary ones; signal will be fed back, which means: we determine the number of cycles, the reverberation.

Combining those three delay line controls offers a of more «echoing» possibilities than nature does. that's what we call: complex delay.

Complex delay

so you reduce the secundary echoes: make it In fact, what the «complex delay» knob controls, maybe you don't need horse-trotting all the time, A simple echo spot turns into a multiple spot echo, a simple finger snap into horse trotting! But sound sober and dry!

Reverberation

is the volume of the secundary echo signals,

comparatively to the main echo.

What kind of echo is it you want?

with just one echo cycle, mountain echo needs several main echoes, while a reverberant room effect can be simulated by full opening the knob An open air "public address" echo is to obtain up to an «endless» reverberation.

In nature the time needed for an echo to come back depends on the distance that separates the source from the reflecting obstacle.

We can simulate that very distance by adjusting the delay time of our CCD Echo Unit. Speaking tion with reverberation, a long delay time could there are some more applications: a short delay time will add a third dimension to music reproduction, or simulate voice doubling; a long delay time is very effective to put the stress about public address effect, as we did in connecon an important word. Delay time is adjustable from 40 to 300 msec. suggest a very wide open space. Anyway,

CLOCK

CONNECTIONS

NOTCH FILTER

PEAK VU-METER (本,,本,,本

PREEMPHASIS

VARIABLE

EMPHASIS

VARIABLE

NOTCH FILTER

All inputs, both micro and music signals, via Mono output to the final mixing device via multi-pin connector lines 14 & 16. It's the "panorama" knob that determines whether the echo signal is internal echo mixing line nº 2. Mono output signal to the Monitor on 6 & ed to the left or the right channel. connector lines to the Monitor.

SPECIFICATIONS

Deviation	Total harmonic distortion at nominal input level better than 1%	better than 70 dB		30 mA
:	otal harmonic distortio at nominal input level	9	umption	
	odi	(DIN curve A)	Power consumption + 15 V	
	플	A	Ē.	
	D B	Ne Ne	JSI.	
5	m in	S I	8>	>
atic	50	Sm	5 5	30
Deviation	at	gnal to noise (DIN curve A)	* +	+ 30 V

ECHO MIXER

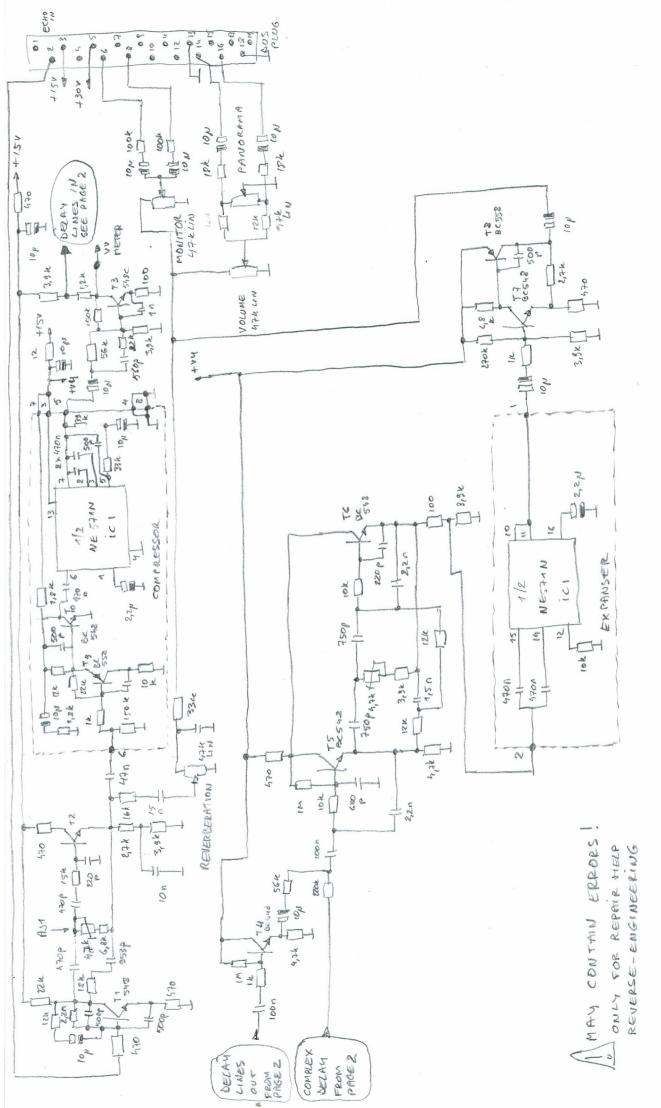




TG488

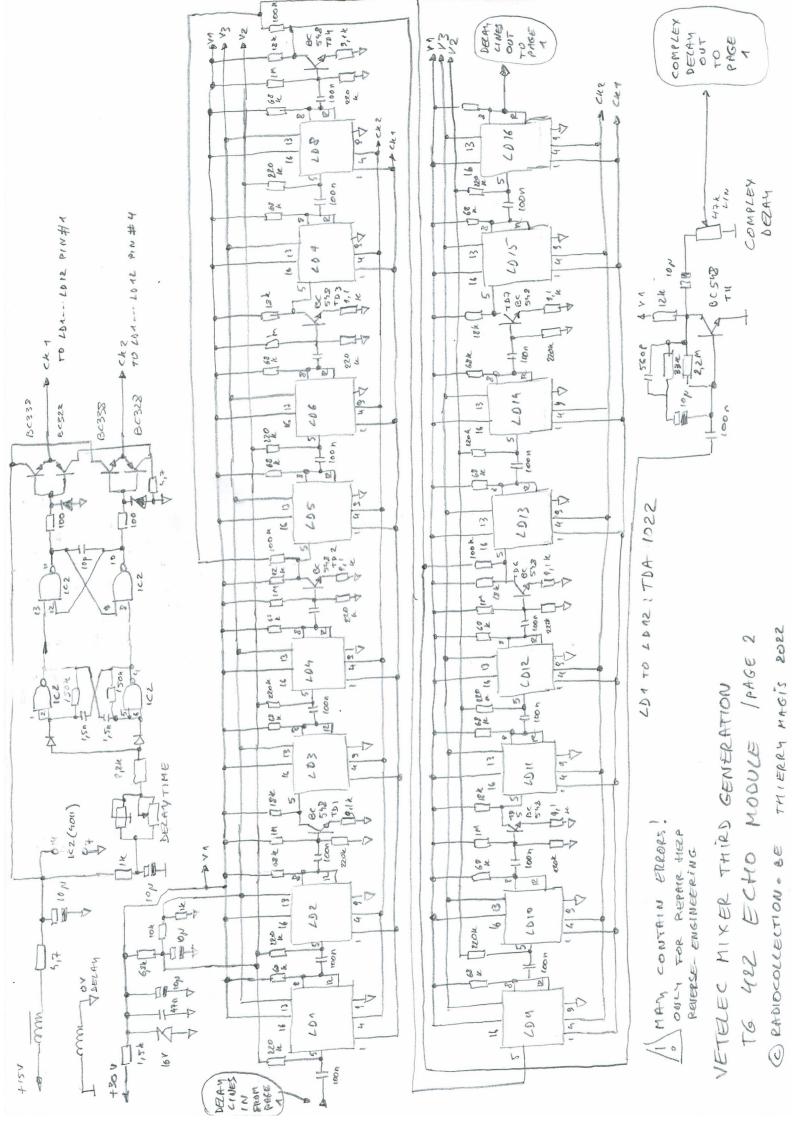
a CCD DELAY LINE 2ad **BLOCK DIAGRAM**

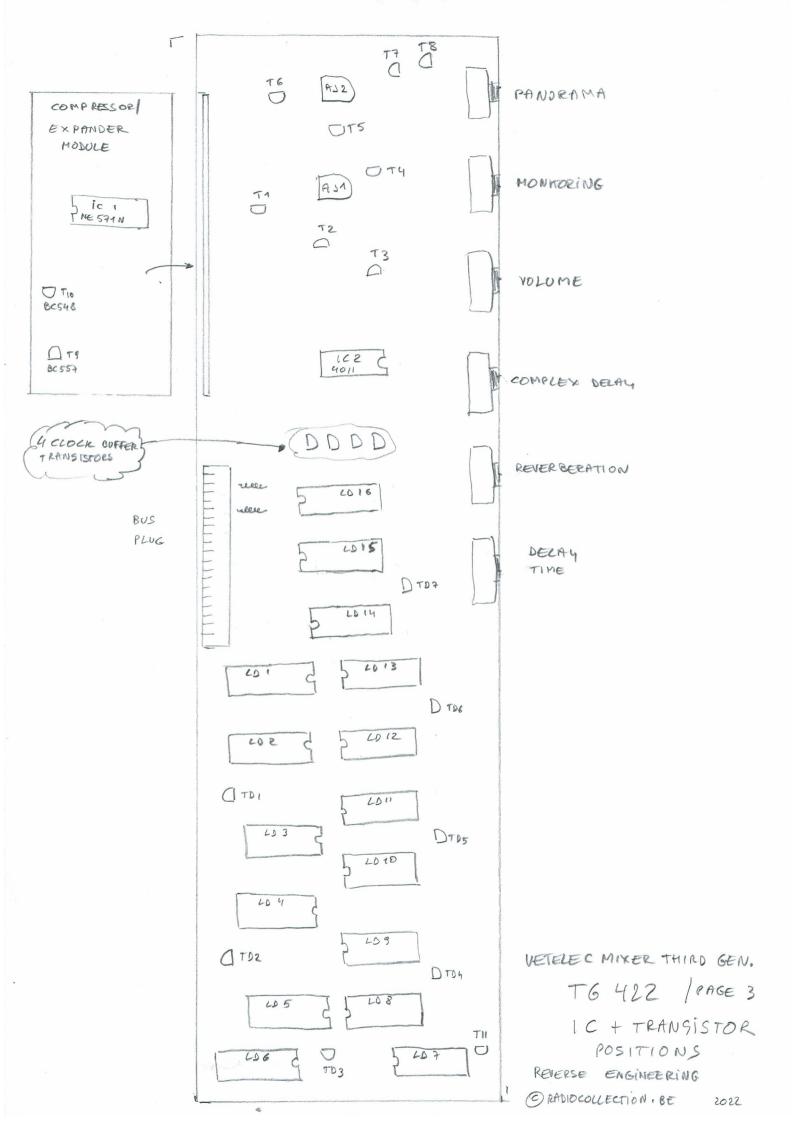
main



VETELEC MIKER THIRD GENERATION TO 422 ECHO MOSULE / PAGE 1

@ RADIOCOLLECTION. BE THIERRY MAGIS 2022





FINAL VOLUME CONTROL TG - 513

This Ouput Unit has been designed for complex sound systems, e.g. when several halls are to be attended by one central discotheque system. The any unit provided with a 1V output socket. The at nominal level to one or more divisional Ourput Units, where it meets final volume control on its "music" Output gets a music+micro mixed stereo signal via an external wire connection from units central mixing device is feeding this signal way to the Power Amplifiers.

CONTROLS

Final volume control by Vetelec Fader and twin high precision VU-meters on both stereo chan-

CONNECTIONS

Input



External stereo connection by DIN plug for the music+micro mixed signal coming from a 1 V output.

Output 1 & 2 LEFT -3-EARTH-2 RIGHT -5-

feeding the music+micro mixed signal to two stereo Power Amplifiers. Two DIN sockets allow

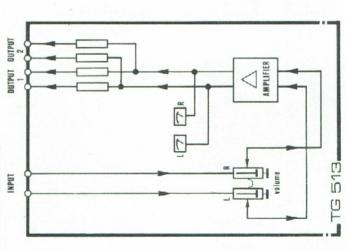
SPECIFICATIONS

1 V	10 dB	6 V RMS	. 20 Hz to 20 kHz	± 1 dB	
					5
					¥
Nominal input level	Gain	Maximum output	Frequency response	Deviation	Total harmonic distortion

Power consumption - 12 V + 30 V

50 mA 10 mA

BLOCK DIAGRAM



MIXING & VOLUME CONTROL IG - 523

micro lines. In other words, any unit with an output via connector lines 14 & 16 can feed its As contrasted with the former, this TG.523 Output signal to the "micro" Output Units (TG.221, 222, 223. 224), the CCD Echo (TG.422) and even the Unit does not get information via an external connection, but by way of its internal connector Pre-Amplifier Unit (TG.231)

It's a matter of fact the TG.523 Output Unit figures typical orchestra sound system could look like he very heart of each Orchest-Line system, since it includes a final mixing device and a special recording output, as well as final volume control.

STERED POWER AMPLIFIER

A CONTRACTOR OF THE PARTY OF TH	NAME AND ADDRESS OF THE OWNER, WHEN PERSON ADDRESS OF THE OWNER, WHEN PERSON AND ADDRESS OF THE OWNER, WHEN
POWER	116-011
OUTPUT	16-523
PRE AMPLIFIER OUTPUT	16-231
FM TUNER	TIE-111
MICAG	16-224
MICHO	B-222 TG-223
MICRO	TG-222

16.221

MICRO

better than 0.05 %

at nominal input level

which also allows the use of a record player, tape and cassette recorder as wel as a nearly unlimited number of electric musical instruments

DUTPUT BUTPUT

BLOCK DIAGRAM

RECORDING

CONNECTIONS

Input

Internal stereo input via multipin connector lines 14 & 16. A stereo input is necessary since some of the input units give full stereo information, and others feed "pseudo" stereo signals through «panorama» potmeters.

Output 1 & 2



allow feeding the final mixed signal to two stereo Power DIN sockets Amplifiers. LWO

1

Recording



DIN socket feeding the mixed stereo signal to a tape or cassette recorder.

AMPLIFIER

SPECIFICATIONS

	44 mV at 20 kΩ	20 Hz to 20 kHz			better than 0.05 %		50 mA	
d				Ĭ	•			
2		Se		sto		0		
0	5	0		ō	Ve	===		
0	5	Sp		0	0	Ē		
=	0	9		0	a	su		
Power Amplifier Output	Recording output	Frequency response	Deviation	Total harm	at nominal level	Power consumption	- 12 V	+ 30 V

MIKE MIXER



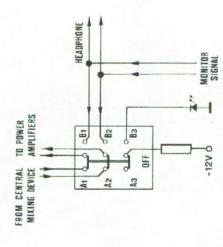




TG523

No schematic yet for TG513!

RESERVE OFF



When reserve is off duty, the push-button switch are open and there is no connection at all with closes A-contacts: the stereo signals coming from the central mixing device just pass by on their way to the power amplifiers. B-contacts the mixed monitor signals.

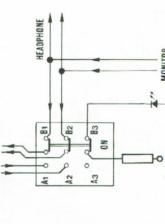
RESERVE ON

signals, instead of the central mixing device

amplifiers. Which allows the mixed monitor signals, to be fed directly to the power ampAMPLIFIERS

MIXING DEVICE

FROM CENTRAL TO POWER



On/ off push-button switch; pilot lamp lit when

reserve is on duty.

Reserve

Treble & Bass

CONTROLS

Two separate potmeters control both treble &

bass tones of the mixed signals.

Volume

of the input signals.

MONITOR Progressive, twin stereo channel volume control

CONNECTIONS

BLOCK DIAGRAM

TUO RESERVE

Signals coming from various units through their individual «monitoring» controls come in via internal multipin connector lines 6 & 8.

Headphone



headphone on the front Standard 6 mm jack panel headphone



mixed stereo signal input from the central mixing DIN-plug External device.

1

RESERVE



SPECIFICATIONS

± 16 dB at 50 Hz ± 15 dB at 10 kHz 25 mW in 8 \(\Omega\) 150 mW in 8 \(\Omega\) 4 \(\Omega\) to 600 \(\Omega\) 10 Hz to 20 kHz ± 1 dB	betterthan 0.25 %
ver pow nce	
M	
+ B & O	5
air m	0
Ta o 2 C	0
° E E & C = E	>
Bass Treble Nominal output power Maximum available power Headphone impedance Frequency response Deviation Otal harmonic distortion	at 25 mW output
sass reble lomin haxim leadp reque	10
ax ax ax	N
ØFZZI LOF	-

Q 0



TG 911

Reserve OUT LEFT 3-EARTH-2-RIGHT -5

(FM Tuner e.g.) and even "special effects" units

Various units, inputs (Micro & Music), sources (s.a. Echo) send out mono or stereo signals The Stereo Monitor Unit mixes these signals

and feeds them to a headphone for monitoring.

through their individual "monitoring" controls.

On the other hand, signals coming from the Output units TG.513, 522 or 523) make a detour

central mixing device (Tone Control TG.911 or over the Monitor Unit on their way to the power

fo mixed stereo signal output to the power amplifiers. DIN-plug External

CONTR

HEADPHONE AMPLIFIER

-12V d

MONITOR MIXER

> Power consumption - 12 V D.C. + 15 V D.C. + 30 V D.C.

20 mA 80 mA 45 mA

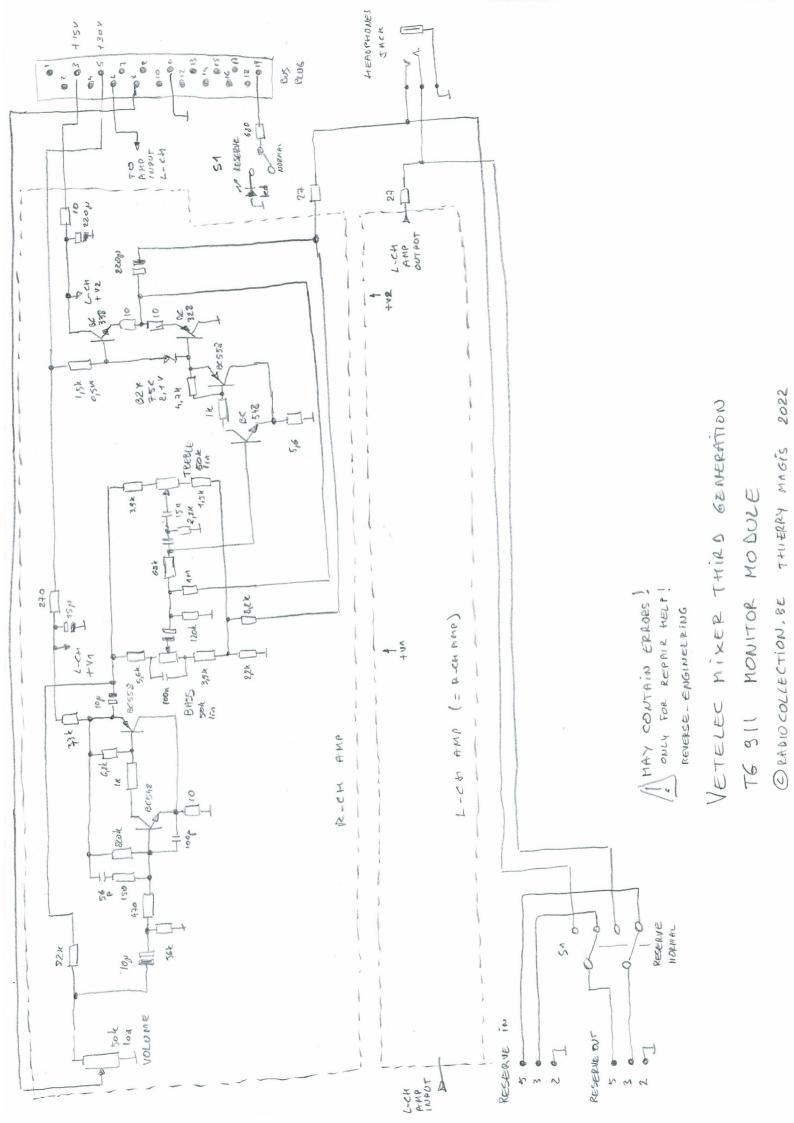
When reserve is on duty, the switch opens A-contacts, interrupting the signal flow coming from the central mixing device, and closes

RESERVE

The Monitor Unit is to be considered a parallel circuit to the central mixing device. This circuit can easily be connected to the Power Amplifiers by a simple push-button switch.

circuit.

B-contacts so that the mixed monitor signal is directly fed to the power amplifiers. At the same time B3 closes the LED pilot lamp



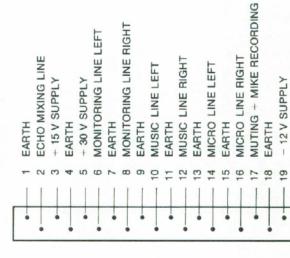
with stabilized + 15 V and + 30 V for very sensi-The Power Supply Unit is suitable to a mains supply of 220 V. It provides all connected units tive electronic connections, and with nonstabilized - 12 V for auxiliary functions, such as remote control, pilot lamps and scale illumina-

CONTROLS

On/off push button mains switch; pilot lamp lit when on duty

MULTIPIN CONNECTOR

electronically impeccable connections. Each pin corresponds to a transit signal line and each line carries a well-defined signal, allowing the units to pick up the signals needed and leave the other Every Third Generation Unit is fitted with a gold contact multipin connector for mechanically and signals alone.



CONNECTIONS

BLOCK DIAGRAM

220 V %

External connection to 220 V ~ mains by Euro-Internal outputs to all connected units via multipean standard plug. pin connector lines.

- 12 V D.C. for auxiliary functions via line 19 + 15 V D.C. stabilized via line 3 + 30 V D.C. stabilized via line 5

All units are connected to earth via multipin connector lines 1, 4, 7, 9, 11, 13, 15 and 18.

SPECIFICATIONS

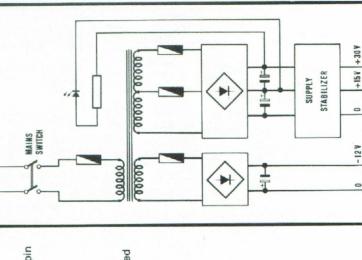
Mains			*		•	,	23	0	-	5	0	$220~\mathrm{V}\sim50~\mathrm{Hz}$
D.C. volta	30	0		٠	•		1	2	>	OU	60	stabilize
	1						+	15	>	sta	q	ized

+ 30 V stabilized

Maximum power consumption Primary

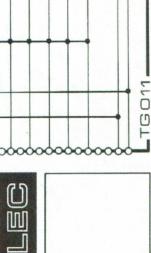
40 VA 1000 mA 800 mA 400 mA - 12 V D.C. + 15 V D.C. + 30 V D.C.

250 mA slow 3 x 1 A slow Fuses Primary Secundary

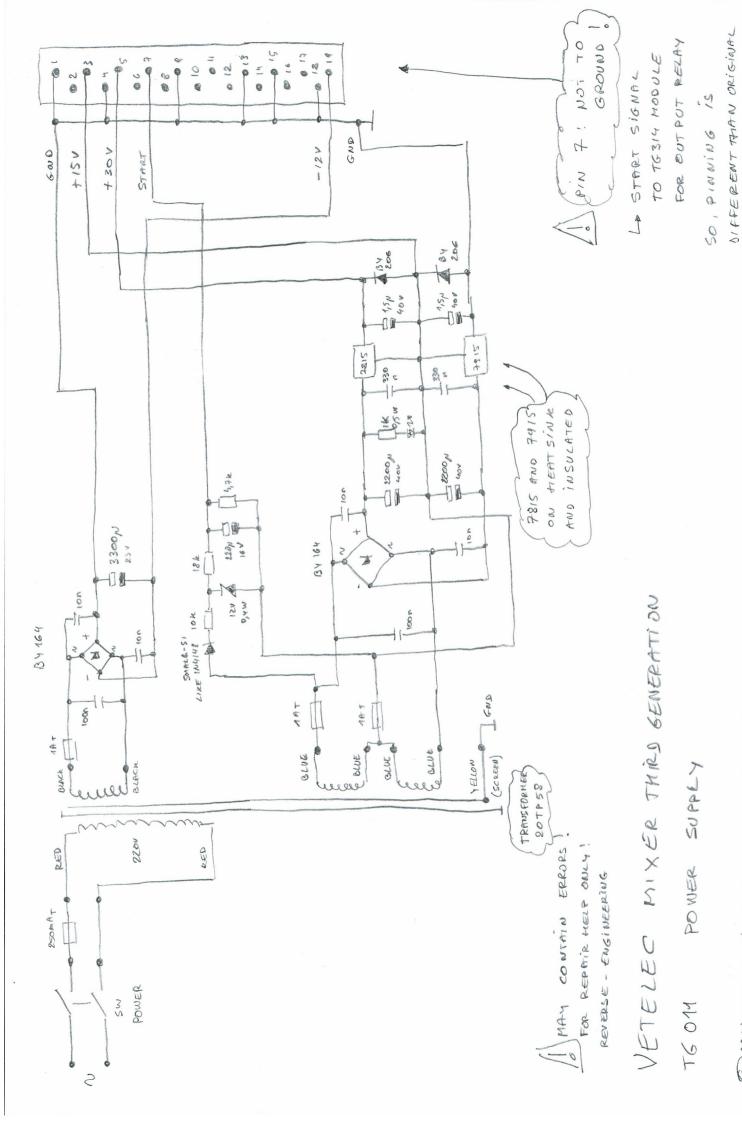








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- MK2 VERSION ? VETELEC BOC!

