



micro-preset synthesizer M-500





■シンセサイザーについて

ラジオやテレビのスイッチを入れてみて下さい。音楽番組 に取らず、CMのバックやドラマのテーマ音楽に、或いは チョンマグの時代劇にさえシンセサイザーによる音楽が当 り前になっている事にお気付きでしょう。

今、私たちは好むと好まざるとに拘らず、シンセサイザー の音に囲まれて生活していると言っても過言ではないのです。

ては何故、シンセサイザーがそれ程までに「出番」の多い 楽器になったのでしょうか。それは一日に言ってしまえば、 この楽器が既成の楽器の音を真似たり、今まで進も使った 事のないユニークな音を創り出すことができるからなので す。

また、一般にシンセサイザーは主にメロディーを演奏する 単音楽器であり、このことは音色を自由に変えたり、音の 出し方を変えたり、音程を連続的に変化させられるという 特長を形づくる要素にもなっています。

しかし、技術の進歩のお陰で、現在では非常に高価ではあ りますが、和音の出せるボリフォニックシンセサイザーも 作られるようになりました。

シンセサイザーの種類もいろいろと増えつつあります。(写 真ご参照下さい)

また、シンセサイザーは電子オルガン、ステレオセット、 ギターアンプ(キーボードアンブが望ましいのですが)に 技感して音を出すことができますが、エコーマシンやフエ ーズシフター(コルグミスター・マルチ¥15,000)、ボリュ ームベダル(コルグ・2キャンネル¥8,500)などを中間に検 載することによって演奏効果を信加することが可能です。



On Synthesizers

Switch on the radio or the TV, music by synthesizers is commonplace not only in music programs but also as commercial background music and drama theme music.

You could say that we are surrounded by synthesized sound.

Then, why has the synthesizer become so popular?

In a word, it is because the synthesizer can imitate the sounds of the existing musical instruments and produce unique sounds which no one else has ever used.

Generally, the synthesizer is a monophonic instrument for playing melodies. This means that the synthesizer has the features that it can freely change tones and sounds, and continuously change tunes.

As a result of technological progress, a polyphonic synthesizer capable of producing chords is now available, through at a very high price; and an increasing bariety of synthesizers are on the market. (see photo)

The synthesizer can produce sounds by connection to an electronic organ, stereo set or guitar amplifier (preferably a keyboard amplifier). And the effects can be doubled by connecting an echo machine, phase shifter (KORG Mr.Multi), or a volume pedal (KORG 2-channel) between them.

■マイクロブリセットの特徴

このコルグ・マイクロブリセット・シンセサイザーは、アマチュアの電子オルガ ン愛好者から、プロのホーボード奏者まで、幅広くご愛用いただける画明的な小 型シンセサイザーです。

従来シンセサイザーは操作が複雑であると考えられていました。

このコルグ・マイクロブリセットはその視線な提作を南素化し、さらに、「C技術 の導入によってシンセサイザーとしてのすべての機能を装飾し、小型化いたしま した。特に「シンセサイザーにおける操作パネル上のツマミは、鍵盤の一部であ る」との思想に来づき操作部の小型化に努めて、ほとんど手を動かさずにすべて のツミをを確定できるように支付いたしました。

初めてシンセサイザーに接する皆様にも、コルグ・マイクロブリセット・シンセサ イザーによって新しい吉を創造する喜びを、光分に味わっていただけるものと確 信しております。

主な特徴

- 1.コルグ・マイクロブリセットは、2 ツ以上のブリセットセレクトスイッチを同時に押すことによりブリセット音のミックスができます。このため従来のブリセットシンセサイザーにはない多彩な音創りが可能です。
- 演奏に効果的なつまみ(トラペラー、モジュレーションデブス、ボルタメント)を パネル下部にまとめ左手だけで自由に操作できる様にレイアウトされています。
- 3.回路のIC化によって小型、軽量となったためにストラップを使用してスタン ドブレーも可能です。

4.コルグ・マイクロブリセットは、電源スイッチをONしてから一回のチューニ ングだけで、常に正しい音程で演奏できます。

電子オルガンや他の楽器と合奏することの多い、プリセットシンセサイザーに とって非常に重要なことです。

Main Features

It is a revolutionary, compact synthesizer that can be used by a wide range of music lovers from amateur electronic organ players to professional Keyboard artists. It has long been believed that it is difficult and complex to play a synthesizer.

The new KORG Micro-preset synthesizer is not only simple to play but, thanks to IC technology, has all the functions of a synthesizer in compact form.

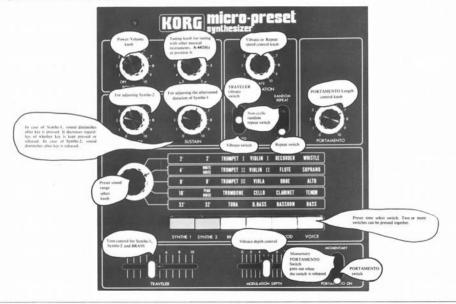
With the belief that knobs on the operation panel of a synthesizer are part of the keyboard, we have designed the operation panel to be as compact as possible so that the player may be able to operate all the knobs with little need of moving his hand, we are sure that you will be fully satisfied with the sounds you produce with this new KORG Micro-preset synthesizer.

Main Features

- This KORG Micro-preset Synthesizer can mix preset sounds by means of depressing more than two preset select switches at the same time. This means that it can produce a greater variety of sounds than the conventional preset type synthesizer.
- Such effect knobs as TRAVELER, MODULATION DEPTH and PORAMENTO are located together in the lower part of the panel so they can be operated freely with the left hand alone.
- 3. The new KORG Micro-preset synthesizer is small in size and light in weight because its circuitry consists of ICs. This enables you to play the synthesizer in a standing posture by hanging it from your shoulder with a strap.
- 4. Once the KORG Micro-preset is tuned after it is switched ON, it is ready for playing in tune always. This is very important for a synthesizer which is often played with an electronic organ or other musical instruments, but there have been few synthesizer which meet this condition.

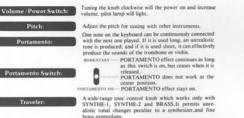


Operation Panel Description



(4)

Effect of Switches



Standard tone at the center position.



Sustain:

A special vibrato effect similar to the tone produced when the TRAVELER knob is moved to the right and lefe. Works only with SYNTHE-1, STNTHE-2, and BRASS.

 VIBRATO does not work at the center position.

Change the intervals periodically to make the sounds expressive. Depress the key, and Vibrato works shortly later.

Control knob for adjusting the DEPTH of vibrato and travel vibrato.

> PEAT speed selected with the MODULATION RATE knob.

REPEAT A sound is repeated periodically.

Control knob for adjusting the speed of VIBRATO, TRAVEL VIBRATO, REPEAT and RANDOM REPEAT. Control knob for adjusting attack time. Works only with SYNTHE-2

Control knob for adjusting aftersound duration.Works only with SYNTHE-1 and SYNTHE-2.

Preset Note

	Wave Forms	Features	
BRASS	Saw-Tooth	The same effect as moving TRAVELER knob is produced in direct proportion to sound volume. (Expand effect)	
STRING	Saw-Tooth	With little change of tone, the desired effect is produced by delaying attack.	
WOOD	Square	Part of the tone components is em- phasised to produce the tones peculiar to the respective instruments. (Bright effect)	
VOICE Saw-Tooth		Each time the key is pressed,the tone returns from a little down level to normal (Pitch Bend effect)	

synthe 1 synthe 2 PRESET NOTES

	Wave Forms	Features	ENVELOPES on synthe-1, synthe-2
SYNTHE 1	Pulse	Volume change(envelope) after depressing the keys is dependent only on the SUSTAIN knob regardless of key pressing time as shown. So this is suitable for synthesizing the tones of plucking and hitting the strings.	SYNTHE-I
SYNTHE 2	Saw-Tooth	A strong TRAVELER effect is produced to provide a strong EXPAND effect as BRASS. Most suitable for synthesizing to-called synthetic sounds.	Anobi set at the SUSTAIN position
	White Noise	Suitable for synthesizing the sounds of winds and running steam locomotive.	- WE
	Pink Noise	Suitable for synthesizing such sounds as waves and storms.	Anack of Sustain-or Key press

Before Use

 Avoid using the instrument near a heater or a stove, and keep it away from exposure to direct sunlight, much moisture, dust and vibration.

■接続方法

マイクロブリセットをお使いになるには、電産を入れなければなりません。 裏パネルに出ている電電コードを使用場所のコンセントに差し込んで下さい。 次に付属のシールドコードのアダブター側でない方を、裏パネルのアウトジャッ クに接続します。使用するアンブ等が電子オルガンやステレオの場合はHIGH個、 ギターアンプやPAシステムの場合はLOW側が適しています。

アンブ等のジャックがビンジャックの場合は、シールドコード端末のアダブター 部分を抜いてビンブラグとしてお使い下さい。

尚、ボリュームペダルをお使いになる場合はペダルに接続後、下記の要領でアン ブ等に接続して下さい。

■アンプなどとの接続例

Avoid using it near a neon lamp, fluorescent light, transformer, or motor because the synthesizer may pick up noise.

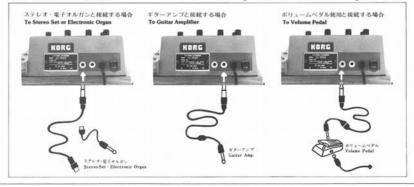
Connecting Method

To use the Micro-preset, it must be connected to an electrical outlet. Connect the power cord from the rear panel into an electrical outlet. Then connect that end of the accessory shielded cord which has no adapter to the rear panel's out jack.

Connect it to the H (high) jack in case of using an electronic organ or stereo amplifier; or to the L (low) jack in case of using a guitar amplifier or a PAsystem amplifier.

When connecting it to an amplifier having a pin connector, remove the adapter from the shielded cord end, and use the pin plug on the cord end. When using the volume pedal, connect the pedal and then connect it to an amplifier in the manner mentioned below.

Examples of connection to amplifier, etc.



■仕 様

鍵 盤:F-C 321能

- スケール:6.5オクターブ 32'16'8'4'2'
- 音 潭: / 几 几 ヒンクノイズ、ホワイトノイズ
- スイッチ:ビブラート トラベルビブラート リビート フンダムリビート ポルタメント モーメンタリーボルタメント
- コントローラー: ポリューム/パワー スイッチ ビッチョントロール アタックコントロール リスティンコントロール ビジェレーションスビードコントロール ポルタメントコントロール ビジェレーションデップスコントロール
- プリセットセレクター:

L	2	1	TRUMPET 1	NOTH 1	RECORDER	WHISTLE
Ē		WINCES.	TRUMPET II	NOTIN II	funt	SOPRANO
ſ	T.	1	TRUMPET IT	VIOLA	8885	AL10
Č	16	PIRK	TROMODINE	CELLS	CLARINET	TEXOS
Ĉ	37	32	TUBA.	0.8455	BASSOON	BASS
7	STNTHE 1	STINTHE 2	BRASS	STRING	WDOD	VOICE

- その他:バイロット/モジュレーションスヒードランフ
- 出 カ: アウトフット1 2 VP+P 出力インヒーダンス4KQ以下 アウトフット2 0.3VP+P * 5KQ以下
- 消費電力: キワット
- 電 源:100V 50/60Hz
- ヒューズ: 0.2(250VA)
- 大きき: 巾730×奥行250×高さ125(mm)
- 重 き:4.9 Kg
- 財 属 晶:接続コード 語面立て ビニールカバー

Specifications

Keyboard: F-C 32 Keys

Scale: 6.5 Octaves 32, 16, 8, 4, 2.

Sound source: A TL Pink Noise, White Noise.

- Switches: Vibrato—Travel Vibrato Repeat—Random Repeat Portamento—Momentary Portamento
- Controls: Volume/Power Switch Pitch Control Attack Control Sustain Control Modulation Speed Control Modulation Depth Control Portamento Control Traveler Knob

Preset Selectors:

1	r	TROMPET 1	AIDTH 1	RECORDER	WESTLE
	WHITE NOVICE	TRUMPET II	VIOLIN 11	RITE	SOPRAND
1	- F	TRUMPET III	YIULA	BBBE	AL10
15	PERK HOLSE	TROMODORE	CELLS	CLARINET	TENDE
12	37	TUBA	0.8455	8455008	BASS
SYNTHE 1	STNTHE 2	BRASS.	STRING	woop	VOICE

Others: Pilot/Modulation Speed Lamp

Output: OUTPUT 1 2Vp-p, Output Impedance less than 4KΩ OUTPUT 2 0.3Vp-p, Output Impecance less than 5KΩ

Power Consumption: 4 Watts

Power Requirements: Local Voltage 50/60Hz

Fuse: 0.2A (250VA)

Dimensions: 730mm (width)x250mm (depth)x125mm (height)

Weight: 4.9kgs

Accessories: Connecting Cord, Music Rack , Vynil Cover



τ Η τος πατώ ΚΕΙΟ ELECTRONIC LABORATORY CORP. ΤΟΚΥΟ. JAPAN

KORG **micro-preset** synthesizer M-500SP

OWNER'S MANUAL

IMPORTANT

The wires in the mains lead fitted to this equipment are coloured coded as follows:

BLUE -	NEUTRAL
BROWN -	LIVE
GREEN/YELLOW -	EARTH

You are advised to fit a 3-pin plug to the lead, wiring the BLUE wire to the NEUTRAL terminal marked "N" in the plug, the BROWN wire to the LIVE terminal marked "L", and the GREEN/YELLOW wire to the terminal marked by the letter "E" or by the safety Earth symbol $\frac{1}{-2}$. The plug must incorporate a 3 amp fuse.

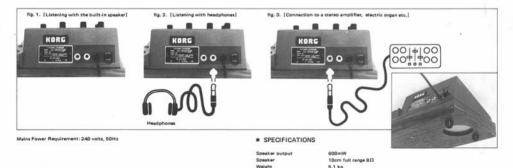
WARNING - This apparatus MUST be earthed!

HOW TO USE THE MICRO-PRESET WITH BUILT-IN SPEAKER M-500SP

- A compact amp and speaker are built right into the M-500SP so you can play it anytime by just plugging in the power cord. Output is 600mW so you have plenty of volume for performance even without an external amp. See figure 1.
- 2) To listen to the M-500SP with headphones, plug the headphone into the headphone jack. When headphones are plugged in, the speaker is automatically switched off. See figure 2. For best results, be sure to use headphones rated at 8Ω.
- 3) Use the connecting cord supplied to attach external amplification equipment, as described on page 7. However, for the model M-SOOSP, only connect the cord to the rear panel socket marked "High".

stereo or mono plug 8Ω

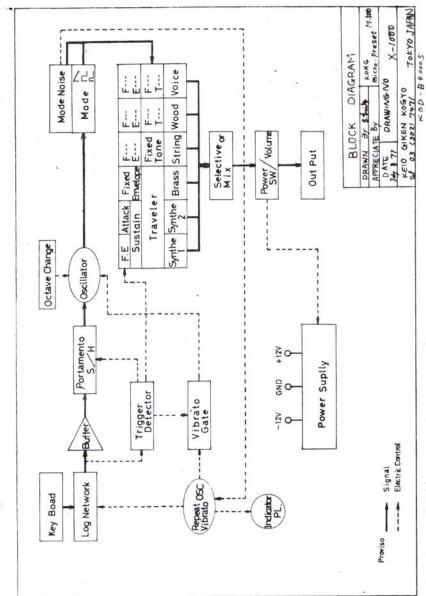
2Vp-p 4kΩ

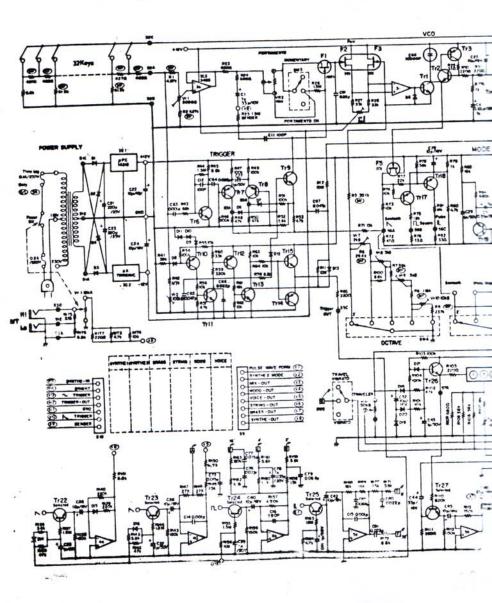


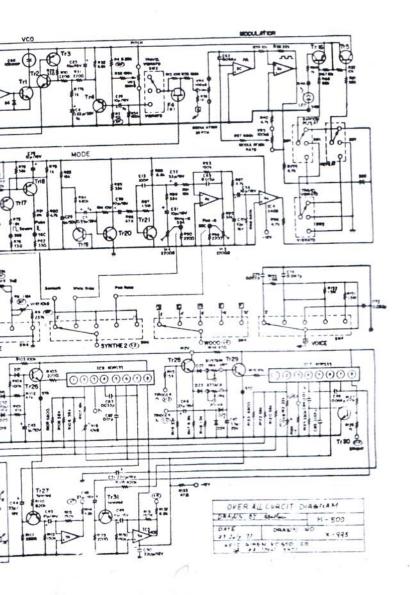
"Low" Headphone out

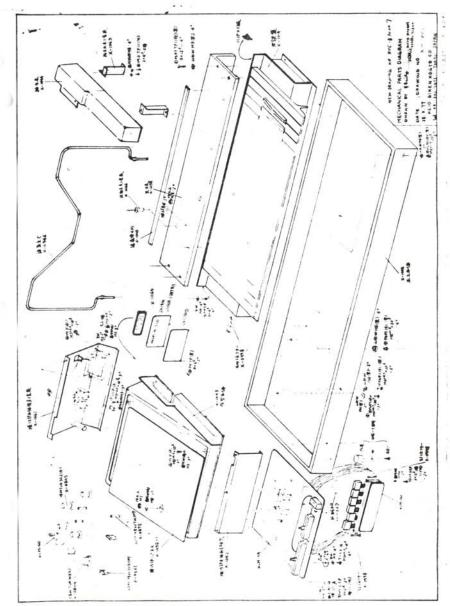
Other specifications same as M-500

"High" Output









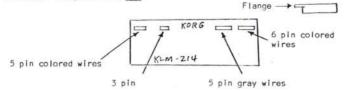
ES50 MODIFICATION PROCEDURE: "Warbling" or "Chirping" problem and excess chorus noise.

- 1. Unpack unit. Leave plastic spread out as protection.
- 2. Carefully remove four top bolts and two side bolts.
- 3. Swing up top part (Iid) of unit. Prop the Iid against something that won't scratch it. There is one hook attached to each side of the back of the Iid. Rest only the left-hand hook on the top rear metal edge of the bottom part of the unit (Iid will lean to the right). This protects the wiring on the left from stress. Be careful not to pinch these wires.

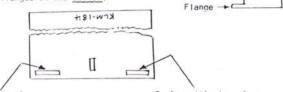
KL M-184 KI M-214 HOOK

- Carefully unplug four connectors from KLM-214 board (brown board at lower left of lid part). (See diagram, pg. 2).
- Carefully unplug two 9-pin connectors from bottom part of KLM-184 board (green board directly above KLM-214). (See diagram, pg. 2).
- Unscrew four woodscrews with plastic washers from KLM-214 board and carefully remove board.
- On the solder side of KLM-214 board, add two .015 UF/50V or better 10% tolerance poly caps as follows. Both capacitors should be laid flat against the board. (See diagram A).
 - a. Solder one cap between <u>traces</u> connected to pins 1 and 3 of IC4. DO NOT SOLDER DIRECTLY TO PINS OF IC4.
 - b. Solder remaining cap in parallel w/R208 (solder side).
- Remove IC6 from KLM-214 board (use Soder-wick or vacuum-type tool). Replace with one piece TL-072 type opamp (T.I.).
- Re-install KLM-214 board using four woodscrews with plastic washers. Observe orientations: "KORG" label and connectors are at top of board (KLM-184 board is upside down).

 Re-attach four connectors to KLM-214 board (see diagram). Connector flanges on the top.



 Re-attach two connectors to KLM-184 board (see diagram). Connector flanges on the bottom.



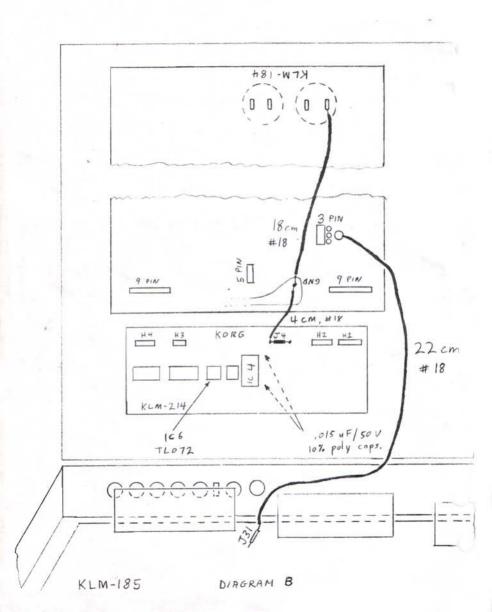
9 pin purple wires

9 pin multicolor wires

- 12. On KLM-184 board, solder one 18cm #18 ga. grounding wire between the right hand mounting tab for the "PERCUSSIVE" tone pot and the spot marked "GND" about 3cm to the left of the lower righthand 9 pin connector. On both this and the following step, tin separately the bare wire ends and the board locations described, then solder together. (See diacram B).
- Solder one 4cm #18 ga. grounding between the spot marked "GND" described on (12) above (KLM-184) and the left hand end of J4 on KLM-214 board.
- 14. This completes the modifications. Swing the lid back down. Be careful that no wires are pinched and that the two side tabs on the control panel slide smoothly into the bottom chassis without catching.
- 15. Carefully re-install the four top bolts with metal cupwashers and the two side bolts with plastic washers. Center the lid before gently tightening bolts.
- Listen to unit. Make sure that problem is corrected and everything is working fine.

Unicord.

a Division of Guilt + Western Manufacturing Company 89 Frost Street, Westbury, N.Y. 11590



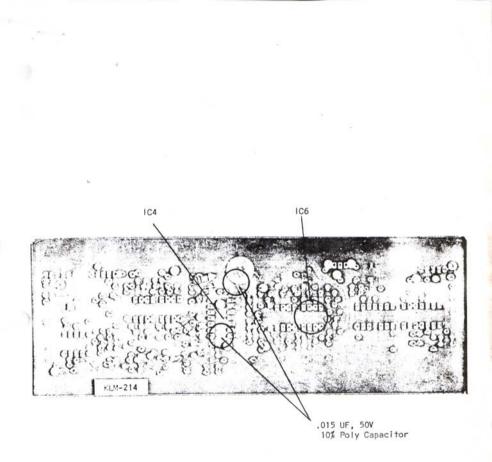


DIAGRAM A

Unicord.

a Division of Gulf + Western Manufacturing Company 89 Frost Street, Westbury, N.Y. 11590



CARNI The second secon



-

