

The Roland logo is presented in a white, sans-serif font within a solid black rectangular box.

VIDEO MIDI SYNC INTERFACE

# SI-80S

## OWNER'S MANUAL

We'd like to take a moment to thank you for purchasing the Roland SI-80S (Video MIDI Sync Interface).

The Roland SI-80S is an interface box that allows consumer-grade video cassette recorders to be synchronized with MTC-compatible MIDI devices (such as sequencers and audio recorders). It accomplishes this by converting the video time code used by ordinary video interfaces to MIDI Time Code (MTC).

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" (p. 2-3) and "IMPORTANT NOTES" (p. 4). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, this manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

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For EU Countries



This product complies with the requirements of European Directive 89/336/EEC.

For the USA

### FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.  
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

#### NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

#### AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## USING THE UNIT SAFELY

### INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About WARNING and CAUTION Notices









<b>WARNING</b>	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
<b>CAUTION</b>	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.  * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols







	The  symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The  symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The  symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

----- **ALWAYS OBSERVE THE FOLLOWING** -----

 **WARNING**

- Before using this unit, make sure to read the instructions below, and the Owner's Manual. 
- Do not open (or modify in any way) the unit or its AC adaptor. 
- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. 
- Never use or store the unit in places that are: 
  - Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
  - Damp (e.g., baths, washrooms, on wet floors); or are
  - Humid; or are
  - Dusty; or are
  - Subject to high levels of vibration.
- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces. 
- Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock. 
- Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it, etc. A damaged cord can easily become a shock or fire hazard. Never use a power cord after it has been damaged. 

 **WARNING**

- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit. 
- Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when: 
  - The AC adaptor or the power-supply cord has been damaged; or
  - Objects have fallen into, or liquid has been spilled onto the unit; or
  - The unit has been exposed to rain (or otherwise has become wet); or
  - The unit does not appear to operate normally or exhibits a marked change in performance.
- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit. 
- Protect the unit from strong impact. (Do not drop it!) 
- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through. 
- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. 

## ⚠ CAUTION

- The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation. ⚠
- Always grasp only the plug or the body of the AC adaptor when plugging into, or unplugging from, an outlet or this unit. ⚠
- Whenever the unit is to remain unused for an extended period of time, disconnect the AC adaptor. ⚠
- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children. ⚠

## ⚠ CAUTION

- Never climb on top of, nor place heavy objects on the unit. ⚠
- Never handle the AC adaptor body, or its plugs, with wet hands when plugging into, or unplugging from, an outlet or this unit. ⚠
- Before moving the unit, disconnect the AC adaptor and all cords coming from external devices. ⚠
- Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet. ⚠
- Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet. ⚠

## ■ IMPORTANT NOTES

In addition to the items listed under “USING THE UNIT SAFELY” on page 2–4, please read and observe the following:

### Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

### Placement

- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.

### Maintenance

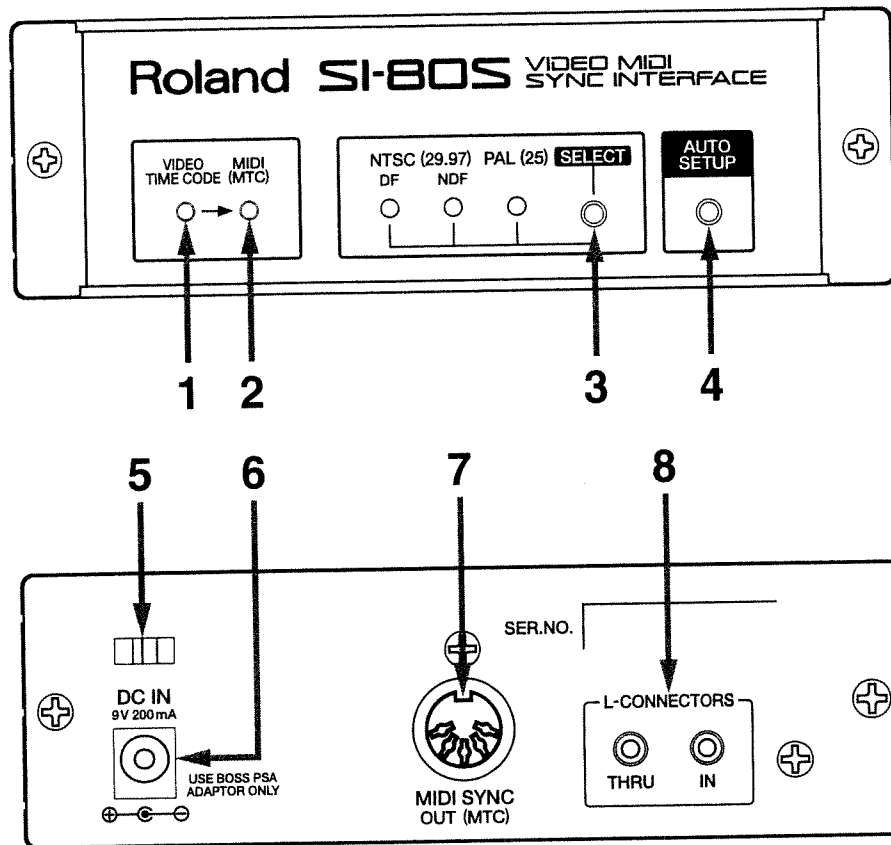
- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

### Additional Precautions

- Use a reasonable amount of care when using the unit’s buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable’s internal elements.
- To avoid disturbing your neighbors, try to keep the unit’s volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

## Front and rear panels



### 1. VIDEO TIME CODE Indicator

Lights when valid video time code is present at the L (IN) jack.

### 2. MIDI (MTC) Indicator

Lights when video time code has been received, and the recorder has been placed in playback or record mode.

### 3. SELECT Button

Used to choose the appropriate frame rate for the MIDI Time Code (MTC) that is transmitted, so it suits the video equipment you intend to operate in sync. The current frame rate can be confirmed by viewing the indicator on the left.

NTSC (29.97) DF  
 NTSC (29.97) NDF  
 PAL (25)

### 4. AUTO SETUP Button

Use only when the SI-80S does not work correctly (p. 7).

### 5. Cord Hook

Used to fix the AC adaptor cord in place. That way, you can prevent having the cord pulled out inadvertently.

### 6. DC IN Jack

Accepts connection of the AC adaptor included with the SI-80S.

### 7. MIDI SYNC OUT (MTC) Connector

This is for connecting audio recorders that support MIDI time code (MTC), such as the VS-880.

### 8. L (IN, THRU) Connectors

For connecting external video devices.

IN: For video time code input. Connect to the LANC connector of external video equipment.

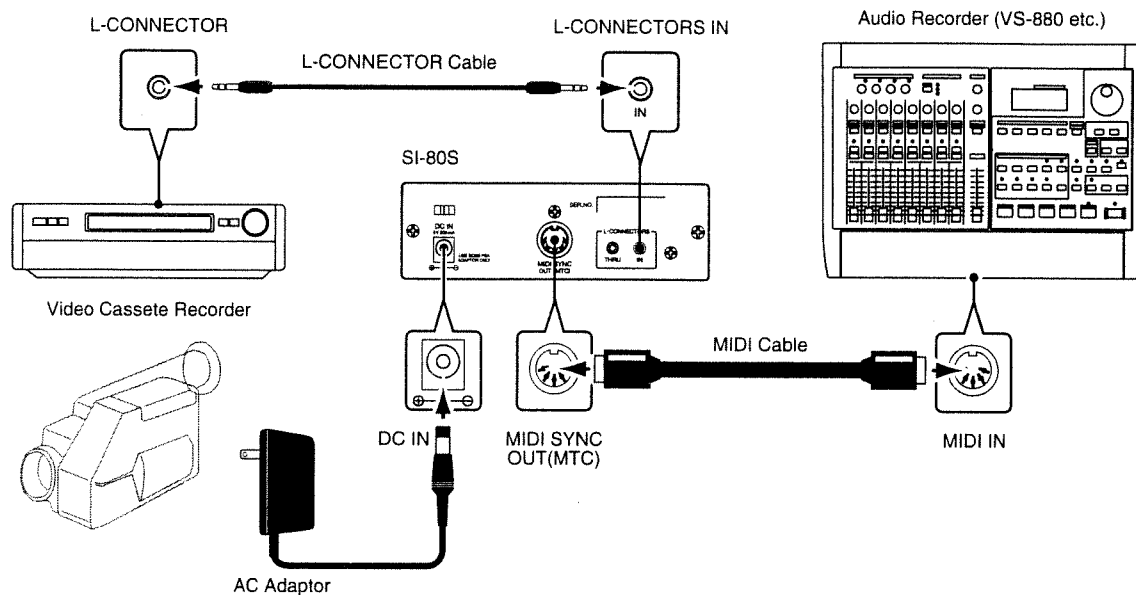
THRU: Sends out an exact copy of all video time code arriving at IN. Connect when needed to the LANC connector of external video equipment.

## Synchronized operation

In this arrangement, the audio recorder is driven by the video equipment to which it is connected. Refer to the user's manuals for both the video and audio equipment you are using.

### ■ Making connections

Connect the equipment as shown below.



To prevent the inadvertent disruption of power to your unit (should the plug be pulled out accidentally), and to avoid applying undue stress to the AC adaptor jack, anchor the power cord using the cord hook, as shown in the illustration.



\* Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

1. Turn on the power to your video equipment.
2. Turn on the power to your audio recorder (e.g., VS-880).
3. Connect the AC adaptor to the SI-80S.

## ■ Changing the frame rate

The SI-80S can transmit the following MTC types. Check the specifications of your audio recorder and other equipment to determine which MTC type should be output from the SI-80S.

NTSC (29.97) DF:

**Drop Frame** at a rate of 29.97 frames per second. Used in the NTSC color video standard.

NTSC (29.97) NDF:

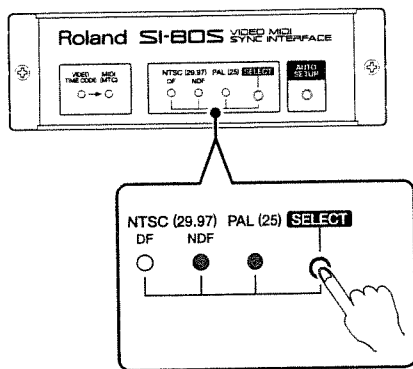
**Non-Drop Frame** at a rate of 29.97 frames per second. Used in the NTSC color video standard.

PAL (25):

This is a frame rate of 25 frames per second. Used for SECAM/PAL standard video and audio equipment and in motion pictures.

1. Press the [SELECT] button.

The frame rate is switched each time you press the button. You can use the [SELECT] button indicator to check the current frame rate.



The [SELECT] button's indicator will be blinking after the frame rate has been changed. If the power is turned off while in this state, the frame rate setting will be discarded. Perform the following steps to save the setting.

2. Hold down the [SELECT] button for at least three seconds.  
The indicator that shows the current frame rate flashes somewhat rapidly.
3. When all indicators are lit, release the button.  
The settings are saved to internal memory, and will be retained even while power is turned off.

\* Saving can take as long as 30 seconds. **Never switch the power off while all indicators are lit.** Doing so may result in damage to the SI-80S's system.

4. When the save is finished, only the changed frame rate indicator remains lit.
5. Run your video equipment with the audio recorder set up to operate as the MTC slave.

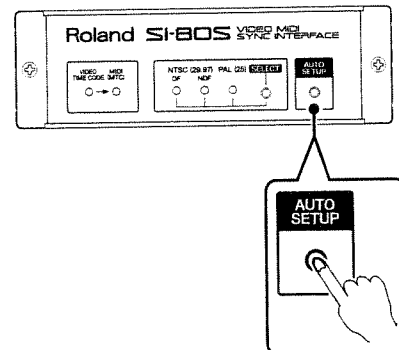
## If the setup does not work (Auto Setup)

SI-80S detects the movement of the video time code from the video equipment, converts it to MMC (MIDI Machine Control) and then control the transport of audio recorder.

If VIDEO TIME CODE indicator does not turn on even you operate the video equipment as usual, please operate as follows (Auto Setup).

\* Also be sure to refer to the user's manual for your video equipment.

1. Operate your video unit as usual, with video tape rolling.
2. Press the [AUTO SETUP] button.  
The MIDI (MTC) indicator lights up. Thereafter, this is considered to be the normal status.



The Auto Setup setting will be discarded as soon as the power is turned off. Perform the following steps to save the setting.

3. Hold down the [AUTO SETUP] button for at least three seconds.
4. When all indicators are lit, release the button. The settings are saved to internal memory, and will be retained even while power is turned off.

\* *Saving can take as long as 30 seconds. **Never switch the power off** while all indicators are flashing. Doing so may result in damage to the SI-80S's system.*

5. When the save is finished, only the current frame rate indicator remains lit.

### ■ Canceling Auto Setup settings

You may encounter situations whereby the SI-80S fails to operate satisfactorily, after Auto Setup has been used when there was no video time code being input or the tape was not running. In such instances, use the following steps to restore all the settings for Auto Setup that were in effect when your SI-80S was purchased.

1. Turn the SI-80S off. Unplug the AC adaptor from the SI-80S.
2. While holding down the [AUTO SETUP] button, turn the SI-80S back on.
3. After confirming that all the indicators have lighted, release the [AUTO SETUP] button. With this, the Auto Setup settings have been restored to what they were when you first took your unit out of the box.

\* ***Never switch the power off** while all indicators are lit. Doing so may result in damage to the SI-80S's system.*

4. After the restoration is complete, only the indicator showing the current frame rate will be lit.
5. Run your video equipment with the audio recorder set up to operate as the MTC slave.

## Troubleshooting

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### ● Audio recorder doesn't start as expected when start button on video deck is pressed.

- Is the L Connector cable or MIDI cable properly connected? (p. 6)
- Does the MTC frame rate match that of your MIDI equipment? (p. 7)
- Is your audio recorder set up to act as the MTC slave?
- Have the Auto Setup settings been made? (p. 7)

### ● All of the indicators remain lighted after the power is turned on.

- Immediately turn the power off, then contact your nearest Roland Service Center or dealer.



## **Glossary**

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### **L Connector**

This jack allows for the control of playback and other functions when video equipment or audio recorders are connected.

### **MTC**

Acronym for "MIDI Time Code." It is a signal that allows for the synchronization of multiple MIDI devices. Unlike the MIDI clock, it displays absolute time. Also, just as with SMPTE Time Code, there are different frame rates. When you want to use MIDI Time Code for synchronization, the frame rate of both devices must match.

### **NTSC Format**

Color television format used in Japan, the United States, and other countries. Tapes recorded in the NTSC format cannot be played back on video decks utilizing the SECAM or PAL formats.

### **SECAM/PAL Formats**

Color television formats used in Europe and other areas. Tapes recorded in the SECAM or PAL formats cannot be played back on video decks designed for the NTSC format.

### **SMPTE Time Code**

Devised by America's SMPTE (Society of Motion Picture and Television Engineers), SMPTE Time Code is a signal that is used for the synchronization of multiple video or audio devices. Displayed in the "Hours : Minutes : Seconds : Frames" format, each frame number of a video image is shown.

### **Drop Frame**

A SMPTE Time Code format. The 30 frames per second NTSC format, adopted in the U.S. and Japan, actually runs at precisely 29.97 frames per second. Drop format rectifies timing discrepancies brought about by this difference by "dropping" or omitting frames along the way. In each minute except the 10th, 20th, 30th, 40th, and 50th, the first two frames are omitted (starting from frame 02 instead of frame 00). This is used in places such as television stations where it is mandatory that time code conform with true televised time.

### **Non-Drop Frame**

A SMPTE Time Code format. The 30 frames per second NTSC format used in the U.S. and Japan actually has precisely 29.97 frames per second. Despite timing discrepancies brought about by the difference in the two frame rates, this format places importance on time code continuity, and does not omit any frames. This format is used in general video and music production.

### **Frame**

Similar to the individual frames in a roll of movie film, the numerous still pictures that are displayed in rapid succession to create a moving video image are also known as "frames." About thirty of these frames are shown each second. When hard disk recorders, sequencers, and other such equipment are synchronized with video, it is generally assumed that there should be one frame every 1/30th of a second.

## Specifications

SI-80S: Video MIDI Sync Interface

### ● Connectors/Jacks

L-Connectors (IN, THRU) (2.5 mm Stereo miniature phone type)  
MIDI Sync Out Connector  
AC Adaptor Jack

### ● Frame Rate

NTSC (29.97) DF  
NTSC (29.97) NDF  
PAL (25)

### ● Power Supply

DC9V: AC Adaptor

### ● Power Consumption

200 mA

### ● Dimensions

138 (W) x 78 (D) x 47 (H) mm  
5-7/16 (W) x 3-1/8 (D) x 1-7/8 (H) inches

### ● Weight

260 g  
10 oz  
(excluding AC adaptor)

### ● Accessories

AC Adaptor  
MIDI cable (1 m)  
Owner's Manual

*\* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.*

## MIDI Implementation

Model: Video MIDI Sync Interface SI-80S  
Date: Jul. 23, 1997  
Version: 1.00

### 1. TRANSMITTED DATA

#### ■ System Common Messages

##### ● MIDI Time Code Quarter Frame Messages

When receiving the video time code from a video cassette recorder, quarter frame message is sent out according to the time code type selected with the [SELECT] button. Clock count to be sent out is in sync with the video time code which is received.

Status	Second
F1H	mmH (= 0nnndddd)

nnn = Message type:

- 0 = Frame count LS nibble
- 1 = Frame count MS nibble
- 2 = Seconds count LS nibble
- 3 = Seconds count MS nibble
- 4 = Minutes count LS nibble
- 5 = Minutes count MS nibble
- 6 = Hours count LS nibble
- 7 = Hours count MS nibble

dddd = 4 bit nibble data:

0h - FH (0 - 15)

Bit Field is assigned as follows.

Frame Count	xxxyyyyy	
	xxx	Reserved (000)
	yyyyy	Frame No.(0-29)
Seconds Count	xyyyyyyy	
	xx	Reserved (000)
	yyyyyy	Seconds (0-59)
Minutes Count	xyyyyyyy	
	xx	Reserved (00)
	yyyyyy	Minutes (0-59)
Hours Count	xyzzzzzz	
	x	Reserved (00)
	yy	Time Code type
		1 = 25 Frames / Sec
		2 = 30 Frames / Sec
		(Drop Frame)
		3 = 30 Frames / Sec
		(Non Drop Frame)
	zzzzz	Hours (0-23)

## 2. MIDI Machine Control

### ■ System Exclusive Messages

#### ● MIDI Machine Control Command Reference

##### ○ STOP (MCS)

<u>Status</u>	<u>Data Bytes</u>	<u>Status</u>
F0H	7FH, 7FH, 06H, 01H	F7H

<u>Byte</u>	<u>Description</u>
F0H	Status of Exclusive Message
7FH	Universal System Exclusive Message Realtime Header
7FH	Device ID
06H	MMC Command Message
01H	STOP (MCS)
F7H	EOX (End of Exclusive Message)

Sent when the video cassette recorder stops running.

##### ○ DEFERRED PLAY (MCS)

<u>Status</u>	<u>Data Bytes</u>	<u>Status</u>
F0H	7FH, 7FH, 06H, 03H	F7H

<u>Byte</u>	<u>Description</u>
F0H	Status of Exclusive Message
7FH	Universal System Exclusive Message Realtime Header
7FH	Device ID
06H	MMC Command Message
03H	DEFERRED PLAY (MCS)
F7H	EOX (End of Exclusive Message)

Sent when the video cassette recorder starts running.

##### ○ LOCATE (MCP)

##### Format 2 - LOCATE [TARGET]

<u>Status</u>	<u>Data Bytes</u>	<u>Status</u>
F0H	7FH, 7FH, 06H, 44H, 06H, 01H, hrH, mnH, scH, frH, ffH	F7H

<u>Byte</u>	<u>Description</u>
F0H	Status of Exclusive Message
7FH	Universal System Exclusive Message Realtime Header
7FH	Device ID
06H	MMC Command Message
44H	LOCATE (MCP)
06H	Number of Bytes
01H	"TARGET" sub command
hrH, mnH, scH, frH, ffH	Standard Time with Sub Frame
F7H	EOX (End of Exclusive Message)

Sent when the video cassette recorder stops or starts running.

## MIDI Implementation Chart

Function...	Transmitted	Recognized	Remarks
Basic Channel Default Changed	X X	X X	
Mode Default Messages Altered	X X *****	X X	
Note Number : True Voice	X *****	X	
Velocity Note ON Note OFF	X X	X X	
After Touch Key's Ch's	X X	X X	
Pitch Bend	X	X	
Control Change	0 - 95 1	X X	Modulation
	6, 38 7	X X	
	10 64	X X	Data entry Volume Pan Hold 1
	100, 101	X	RPN LSB, MSB
Program Change : True #	X *****	X	
System Exclusive	O * 1	X	
System Common : Quarter Frame : Song Pos : Song Sel : Tune	X X X X	X X X X	
System Real Time : Clock : Commands	X X	X X	
Aux Message : Local ON/OFF : All Notes OFF : Active Sense : System Reset	X X X X	X X X X	
Notes	* 1 Transmit MIDI Machine Control (MMC).		

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# Use with the VS-880

Here we will explain the procedures for using the VS-880 with the SI-80S.

1. Press [SYSTEM] several times until "SYS MIDI PRM ?" appears.
2. Press [YES].
3. Press PARAMETER [▶▶] several times until "SYS MID:SysEx.Rx=" appears.
4. Use the TIME/VALUE dial to set this "On."
5. Press PARAMETER [▶▶] several times until "SYS MID:MMC=" appears.
6. Use the TIME/VALUE dial to set this "SLAVE."
7. Press [SYSTEM] several times until "SYS Sync/Tempo ?" appears.
8. Press [YES].
9. Press PARAMETER [▶▶] several times until "SYS Syn:Source=" appears.
10. Use the TIME/VALUE dial to set this "EXT."
11. Press PARAMETER [▶▶] several times until "SYS Syn:MTC Type=" appears.
12. Use the TIME/VALUE dial to select the appropriate type of time code on video equipment that you are using.
  - 29D: NTSC (29.97) DF
  - 29N: NTSC (29.97) NDF
  - 25: PAL (25)
13. Press [PLAY (DISPLAY)] to return to Play condition.

The VS-880 setting has now been finished. Run your video equipment according to SI-80S Owner's manual.

## VS-880の操作方法について

SI-80SをVS-880と組み合わせて使うときの、VS-880での操作方法について説明します。

1. “SYS MIDI PRM ?” と表示されるまで、[SYSTEM] を何回か押します。
2. [YES] を押します。
3. “SYS MID : SysEx.Rx=” と表示されるまで、PARAMETER [▶▶] を何回か押します。
4. TIME/VALUダイヤルで “On” を選びます。
5. “SYS MID : MMC=” と表示されるまで、PARAMETER [▶▶] を何回か押します。
6. TIME/VALUダイヤルで “SLAVE” を選びます。
7. “SYS Sync/Tempo ?” と表示されるまで、[SYSTEM] を何回か押します。
8. [YES] を押します。
9. “SYS Syn : Source=” と表示されるまで、PARAMETER [▶▶] を何回か押します。
10. TIME/VALUダイヤルで “EXT” を選びます。
11. “SYS Syn : MTC Type=” と表示されるまで、PARAMETER [▶▶] を何回か押します。
12. TIME/VALUEダイヤルで、お使いのビデオ機器で使用するタイム・コードを選びます。
  - 29D : NTSC (29.97) DF
  - 29N : NTSC (29.97) NDF
  - 25 : PAL (25)
13. [PLAY (DISPLAY)] を押します。  
プレイ・コンディションに戻ります。

以上でVS-880側の設定ができました。SI-80Sの取扱説明書にしたがってビデオ機器を操作してください。

# Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

## ARGENTINA

**Instrumentos Musicales S.A.**  
Florida 638  
(1005) Buenos Aires  
ARGENTINA  
TEL: (01) 394 4029

## BRAZIL

**Roland Brasil Ltda.**  
R. Coronel Octaviano da Silveira  
203 05522-010  
Sao Paulo BRAZIL  
TEL: (011) 843 9377

## CANADA

**Roland Canada Music Ltd.**  
(Head Office)  
5480 Parkwood Way Richmond  
B. C., V6V 2M4 CANADA  
TEL: (0604) 270 6626

**Roland Canada Music Ltd.**  
(Toronto Office)  
Unit 2, 109 Woodbine Downs  
Blvd, Etobicoke, ON  
M9W 6Y1 CANADA  
TEL: (0416) 213 9707

## MEXICO

**Casa Veerkamp, s.a. de c.v.**  
Av. Toluca No. 323 Col. Olivar de  
los Padres 01780 Mexico D.F.  
MEXICO  
TEL: (525) 668 04 80

**La Casa Wagner de  
Guadalajara s.a. de c.v.**  
Av. Corona No. 202 S.J.  
Guadalajara, Jalisco Mexico  
C.P.41100 MEXICO  
TEL: (03) 613 1414

## PANAMA

**Productos Superiores, S.A.**  
Apartado 655 - Panama 1  
REP. DE PANAMA  
TEL: 26 3322

## U. S. A.

**Roland Corporation U.S.**  
7200 Dominion Circle  
Los Angeles, CA. 90040-3696,  
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TEL: (0213) 685 5141

## VENEZUELA

**Musicland Digital C.A.**  
Av. Francisco de Miranda,  
Centro Parque de Cristal, Nivel  
C2 Local 20 Caracas  
VENEZUELA  
TEL: (02) 285 9218

## AUSTRALIA

**Roland Corporation  
Australia Pty. Ltd.**  
38 Campbell Avenue  
Dee Why West, NSW 2099  
AUSTRALIA  
TEL: (02) 982 8266

## NEW ZEALAND

**Roland Corporation (NZ) Ltd.**  
97 Mt. Eden Road, Mt. Eden,  
Auckland 3, NEW ZEALAND  
TEL: (09) 3098 715

## CHINA

**Beijing Xinghai Musical  
Instruments Co., Ltd.**  
2 Huangmuyang Chao Yang  
District, Beijing, CHINA  
TEL: (010) 6774 7491

## HONG KONG

**Tom Lee Music Co., Ltd.  
Service Division**  
22-32 Pun Shan Street, Tsuen  
Wan, New Territories,  
HONG KONG  
TEL: 2415 0911

## INDONESIA

**PT Galestra Inti**  
Kompleks Perkantoran  
Duta Merlin Blok E No.6—7  
Jl. Gajah Mada No.3—5,  
Jakarta 10130,  
INDONESIA  
TEL: (021) 6335416

## KOREA

**Cosmos Corporation  
Service Station**  
261 2nd Floor Nak-Won Arcade  
Jong-Ro ku, Seoul, KOREA  
TEL: (02) 742 8844

## MALAYSIA

**Bentley Music SDN BHD**  
No.142, Jalan Bukit Bintang 55100  
Kuala Lumpur, MALAYSIA  
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**G.A. Yupangco & Co. Inc.**  
339 Gil J. Puyat Avenue  
Makati, Metro Manila 1200,  
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## SINGAPORE

**Swee Lee Company**  
BLOCK 231, Bain Street #03-23  
Bras Basah Complex,  
SINGAPORE 0718  
TEL: 3367886

**CRISTOFORI MUSIC PTE  
LTD**  
335, Joo Chiat Road SINGAPORE  
1542  
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## TAIWAN

**ROLAND TAIWAN  
ENTERPRISE CO., LTD.**  
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N.Road Sec.2, Taipei, TAIWAN,  
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## THAILAND

**Theera Music Co., Ltd.**  
330 Vergm Nakorn Kasem, Soi 2,  
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TEL: (02) 2248821

## BAHRAIN

**Moon Stores**  
Bad Al Bahrain Road,  
P.O.Box 20077  
State of BAHRAIN  
TEL: 211 005

## IRAN

**TARADIS**  
Mir Emad Ave. No. 15, 10th street  
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TEL: (021) 875 6524

## ISRAEL

**Halilit P. Greenspoon &  
Sons Ltd.**  
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**AMMAN Trading Agency**  
Prince Mohammed St. P. O. Box  
825 Amman 11118 JORDAN  
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**Easa Husain Al-Yousifi**  
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KUWAIT  
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Chahine Building, Achrafieh  
Beirut, LEBANON  
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## OMAN

**OHI Electronics & Trading  
Co. LLC**  
P. O. Box 889 Muscat  
Sultanate of OMAN  
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## QATAR

**Badie Studio & Stores**  
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DOHA QATAR  
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**Abdul Latif S. Al-Ghamdi  
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**Technical Light & Sound  
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Khaled Ebn Al Walid St.  
P.O.Box 13520  
Damascus - SYRIA  
TEL: (011) 2235 384

## TURKEY

**Barkat Sanayi ve Ticaret**  
Siraselvler Cad. Guney Ishani No.  
86/6 Taksim, Istanbul TURKEY  
TEL: (0212) 2499324

## U.A.E

**Zak Electronics & Musical  
Instruments Co.**  
Zabeel Road, Al Sherooq Bldg.,  
No. 14, Grand Floor DUBAI  
U.A.E.  
P.O. Box 8050 DUBAI, U.A.E  
TEL: (04) 360715

## EGYPT

**Al Fanny Trading Office**  
9, Ebn Hagar Ai Askalany Street,  
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## KENYA

**Musik Land Limited**  
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Nairobi Republic of KENYA  
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Chaudron - BP79 97491  
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## SOUTH AFRICA

**That Other Music Shop  
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11 Melle Street (Cnr Melle and  
Juta Street)  
Braamfontein 2001  
Republic of SOUTH AFRICA  
TEL: (011) 403 4105

**Paul Bothner (PTY) Ltd.**  
17 Werdmuller Centre Claremont  
7700  
Republic of SOUTH AFRICA  
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## AUSTRIA

**E. Dematte & Co.**  
Neu-Rum Siemens-Strasse 4  
A-6040 Innsbruck P.O.Box 83  
AUSTRIA  
TEL: (0512) 26 44 260

## BELGIUM/HOLLAND/ LUXEMBOURG

**Roland Benelux N. V.**  
Houtstraat 1 B-2260 Oevel-  
Westerlo BELGIUM  
TEL: (014) 575811

## BELORUSSIA

**TUSHE**  
UL. Rabkorovskaya 17  
220001 MINSK  
TEL: (0172) 764-911

## CYPRUS

**Radex Sound Equipment Ltd.**  
17 Diagorou St., P.O.Box 2046,  
Nicosia CYPRUS  
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(02) 466 423

## DENMARK

**Roland Scandinavia A/S**  
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DK-1023 Copenhagen K,  
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## FRANCE

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TEL: 472 26 2700

## FINLAND

**Roland Scandinavia As,  
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## GERMANY

**Roland Elektronische  
Musikinstrumente  
Handelsgesellschaft mbH.**  
Oststrasse 96, 22844 Norderstedt,  
GERMANY  
TEL: (040) 52 60090

## GREECE

**V. Dimitriadis & Co. Ltd.**  
20, Alexandras St. & Bouboulinas  
54 St. 106 82 Athens, GREECE  
TEL: (01) 8232415

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**Intermusica Ltd.**  
Warehouse Area 'DEPO' Pf.83  
H-2046 Torokbalint, HUNGARY  
TEL: (23) 338 041

## IRELAND

**The Dublin Service Centre  
Audio Maintenance Limited**  
11 Brunswick Place Dublin 2  
Republic of IRELAND  
TEL: (01) 677322

## ITALY

**Roland Italy S. p. A.**  
Viale delle Industrie, 8  
20020 Arese Milano, ITALY  
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## PORTUGAL

**Caius - Tecnologias Audio e  
Musica , Lda.**  
Rue de Catarina 131  
4000 Porto, PORTUGAL  
TEL: (02) 38 4456

## RUSSIA

**Slami Music Company**  
Sadojava-Triumfalnaja st., 16  
103006 Moscow, RUSSIA  
TEL: 095 209 2193

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**Roland Electronics  
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