

Roland®

VIDEO MIDI SYNC INTERFACE

SI-80SP

OWNER'S MANUAL

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

The SI-80SP is an interface box that allows video cassette recorders as shown below to be synchronized with audio recorders (such as the Roland A-6 or VS-1680) that are compatible with MTC (MIDI Time Code). It accomplishes this by converting the video time code used by Video cassette recorders to MTC (MIDI Time Code).

- Sony DV recorders (LANC)
- Sony Hi-8 (LANC with RC Time Code)
- Panasonic DV recorders (EDIT Ⓔ)

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" (p.2-5) and "IMPORTANT NOTES" (p. 7). 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, Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

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




USING THE UNIT SAFELY

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

About  **WARNING** and  **CAUTION** Notices

<p> WARNING</p>	<p>Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.</p>
<p> CAUTION</p>	<p>Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.</p> <p>* 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.</p>

About the Symbols

	<p>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.</p>
	<p>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.</p>
	<p>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.</p>

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
- Exposed to rain; 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.



- 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.



- 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 (p.12).



- Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.



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IMPORTANT NOTES

In addition to the items listed under "USING THE UNIT SAFELY" on page 2-5, 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.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.
- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.

Maintenance

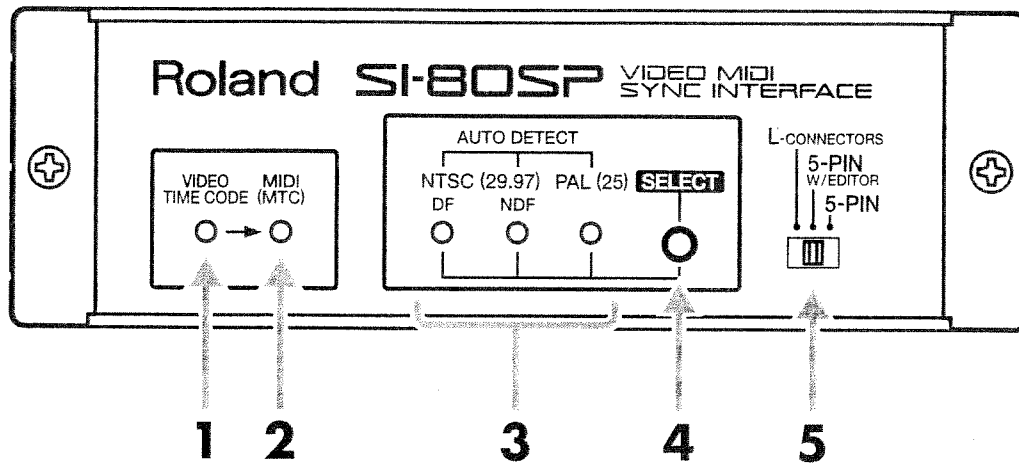
- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, 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

Front Panel



1. VIDEO TIME CODE Indicator

Lights when valid video time code is present at the L-CONNECTORS (IN) or the 5-PIN EDITING TERMINALS (IN).

2. MIDI (MTC) Indicator

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

3. AUTO DETECT/SELECT Indicator

When you're using a Sony DV recorder, this displays the frame rate of the received video time code. The frame rate of the MTC (MIDI Time Code) that is sent becomes the same as the frame rate of the received video time code.

When you're using a Panasonic DV recorder, this displays the frame rate of the MTC (MIDI Time Code) that is sent.

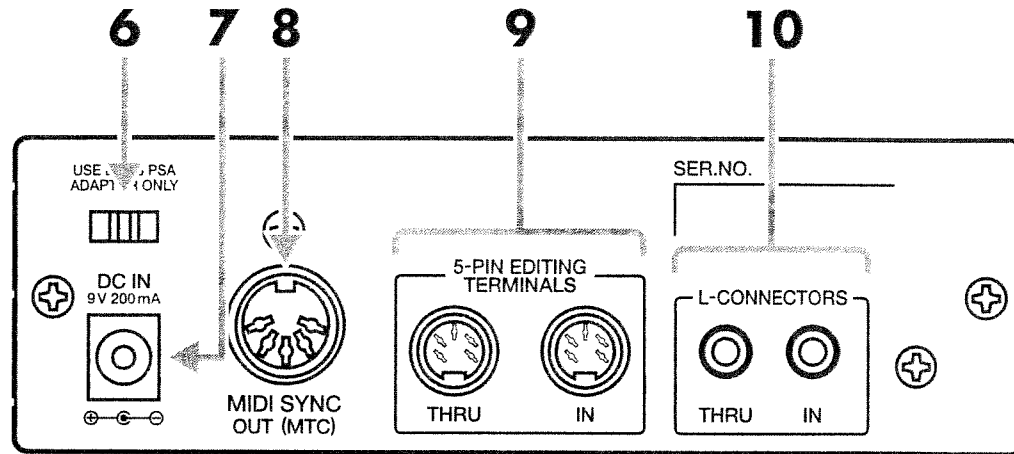
4. SELECT Button

When you're using a Panasonic DV recorder, this switches the frame rate of the MTC (MIDI Time Code) that is sent. You can use the AUTO DETECT/SELECT indicator light to the left of the button to check the present frame rate.

5. Selector Switch

Changes the settings of the SI-80SP to match the connected video device.

Rear Panel



6. Cord Hook

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

7. DC IN Jack

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

8. MIDI SYNC OUT (MTC) Connector

This is for connecting audio recorders that support MTC (MIDI Time Code), such as the A-6 and the VS-1680.

9. 5-PIN EDITING TERMINALS (IN, THRU)

These are for connecting Panasonic video equipment (DV recorder).

IN: For video time code input. Connect to the EDIT **E** connector of the external video equipment.

THRU: Sends out an exact copy of all video time code arriving at the 5-PIN EDITING TERMINALS IN. Connect to the EDIT **E** connector of an editing controller or the EDIT **E** connector of the external video equipment.

10. L-CONNECTORS (IN, THRU)

These are for connecting Sony video equipment (DV recorder).

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

THRU: Sends out an exact copy of all video time code arriving at the L-CONNECTORS IN. Connect to the LANC connector of an editing controller or the LANC connector of the external video equipment.

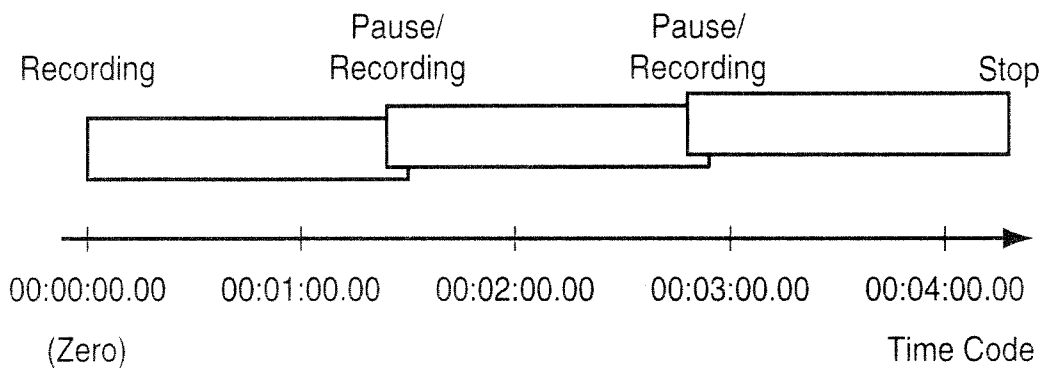
Getting Ready for Synchronized Operation

Have an Edited Video Tape on Hand

In order to synchronize the DV recorder (video) and the audio recorder, the time codes recorded on the video tape must be continuous. Before recording with the audio recorder (such as the A-6), finish editing the video tape, and create a video master tape that has continuous time codes.

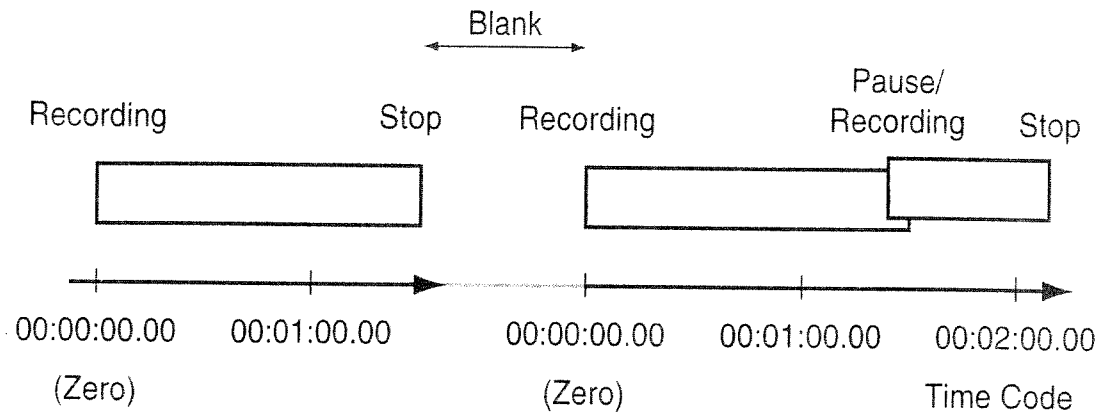
Continuous Time Codes

When ordinary digital video equipment (the DV recorder) is used to perform recording on a new (blank) tape, the time-code recording starts at zero (00h00m00s00). Also, when recording is performed partway through a tape where something else has already been recorded, the time codes are automatically made continuous (such as when repeating recording and pausing). At such times, the audio recorder correctly performs synchronized operation.

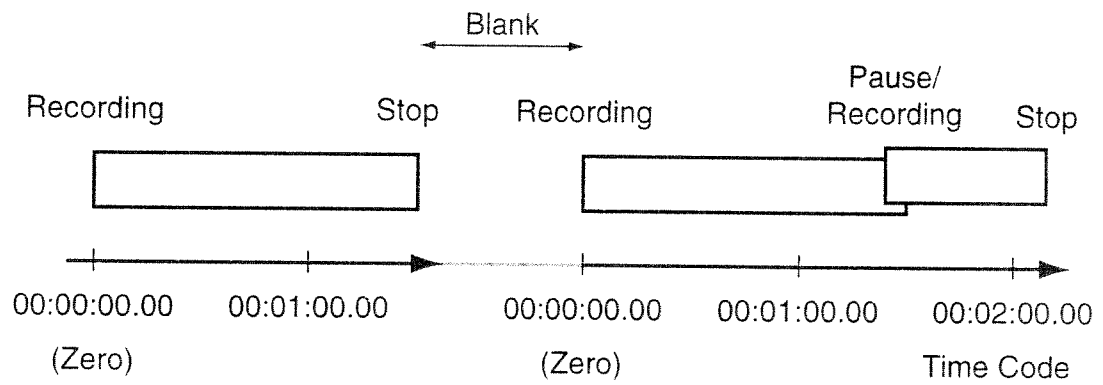


Discontinuous Times Codes

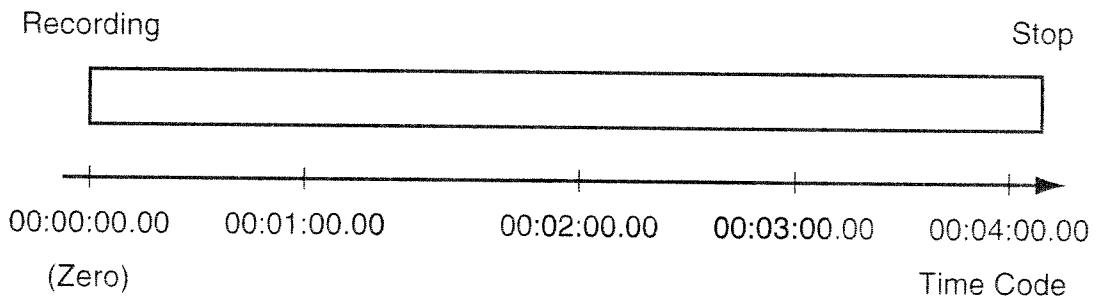
If the power to the digital video equipment (the DV recorder) is switched off in the middle of recording or editing, or if recording is continued after a blank space (a section where nothing is recorded) partway through the tape, the time codes are interrupted at that point and start over again from zero. Because the same time code (time stamp) can appear at any number of places on the tape, the audio recorder cannot perform synchronized operation correctly.



In such cases, again copy the video from the tape having discontinuous time codes to another video tape to create a master tape.



↓ Dubbing



Tips and Tricks for Videotaping

- Time codes in the beginning portion of a tape or in the portion immediately after recording is started may not be stable. It may be a good idea to record slightly longer to establish a small margin of several seconds at the start.
- In order to record with continuous time codes, perform indexing correctly to the end portion of the previously recorded video. Then rewind several frames from the position, and with the ending portion of the video displayed on the monitor (television), press the record button to start recording with continuous time codes.
- For the same reasons just described, we recommend taping a little longer than necessary to establish a margin at the end of taping as well.

Important Notes When Turning On the Power

The SI-80SP has no power switch. The power comes on when the AC adapter cord is connected to the DC IN jack on the rear panel and plugged into a power outlet. To help prevent incorrect operation or damage, make sure the connections to the video equipment (the DV recorder) and the audio recorder (such as the A-6) are finished (the LANC connector, the EDIT $\text{\textcircled{E}}$ connector, the MIDI Sync Out connector, and so on) before plugging the AC adapter into the power outlet.

** 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.*



Using a Sony DV Recorder (Connected to the LANC Connector)

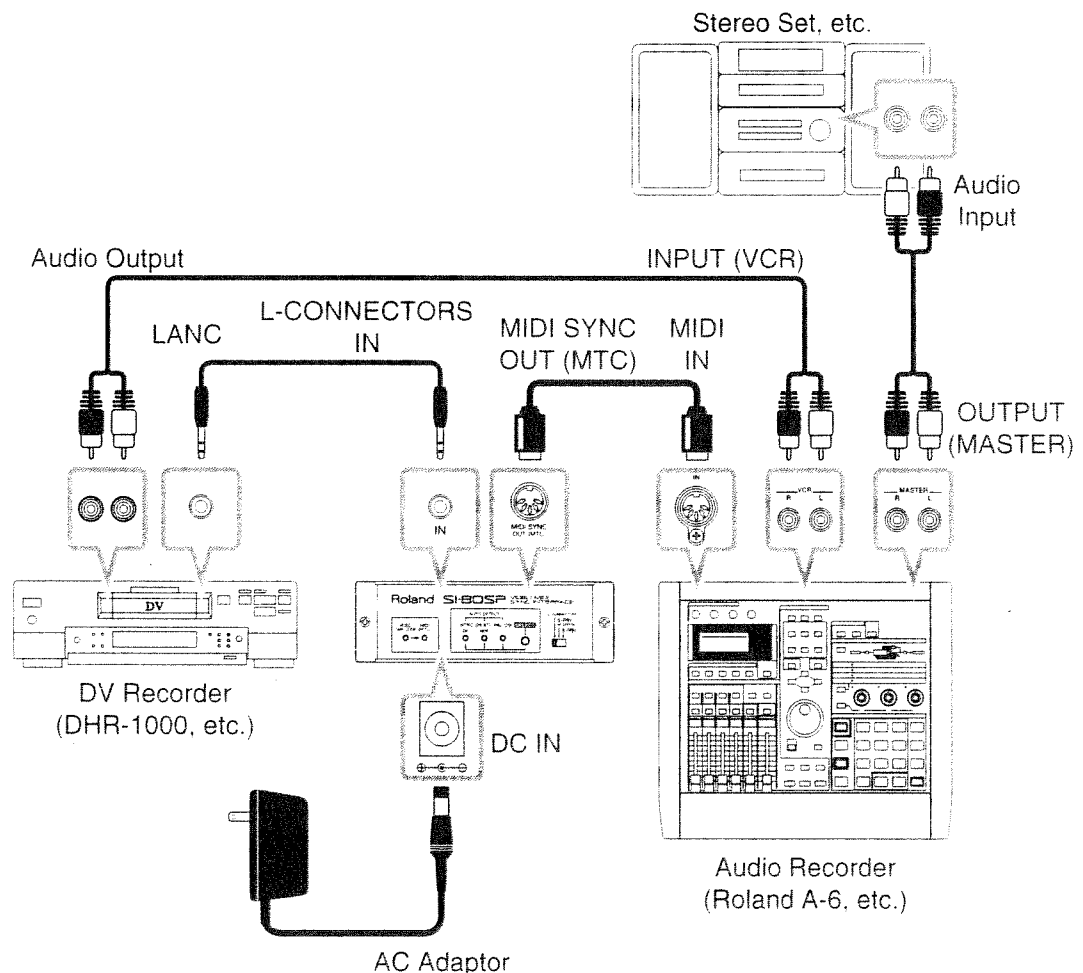
This section describes operation when using the LANC connector to connect a Sony DV recorder (such as the DHR-1000 or the DSR-30) and the SI-80SP. Read this along with the documentation for your DV recorder and audio recorder (such as the A-6).

* It is possible to connect to the Hi-8 (LANC with RC Time Code).

* When the DV recorders of Sony and Panasonic are connected simultaneously, select which DV recorder to use, with the selector switch on the front panel.

Recording a Video Tape's Simultaneous Audio Track on an Audio Recorder (A-6, Etc.)

Now let's record the audio that's recorded on video tape simultaneously with the video (the synchronized audio) on an audio recorder (such as the A-6). Make the connections as shown below.



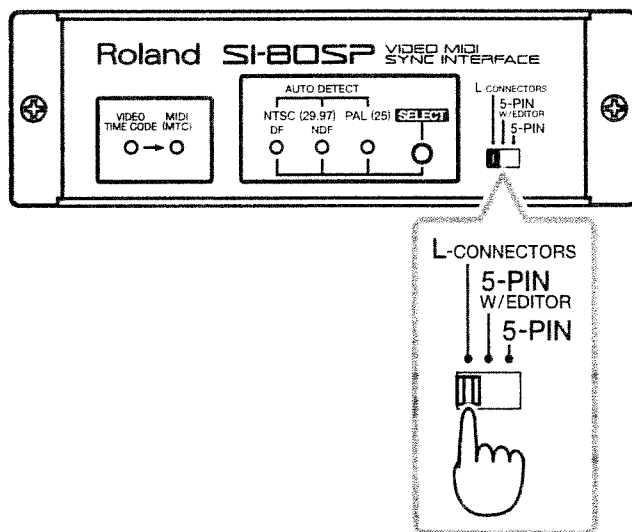
Using a Sony DV Recorder (Connected to the LANC Connector)

* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

* 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.

* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

1. Set the selector switch on the SI-80SP to "L-CONNECTORS" (the left-hand setting).

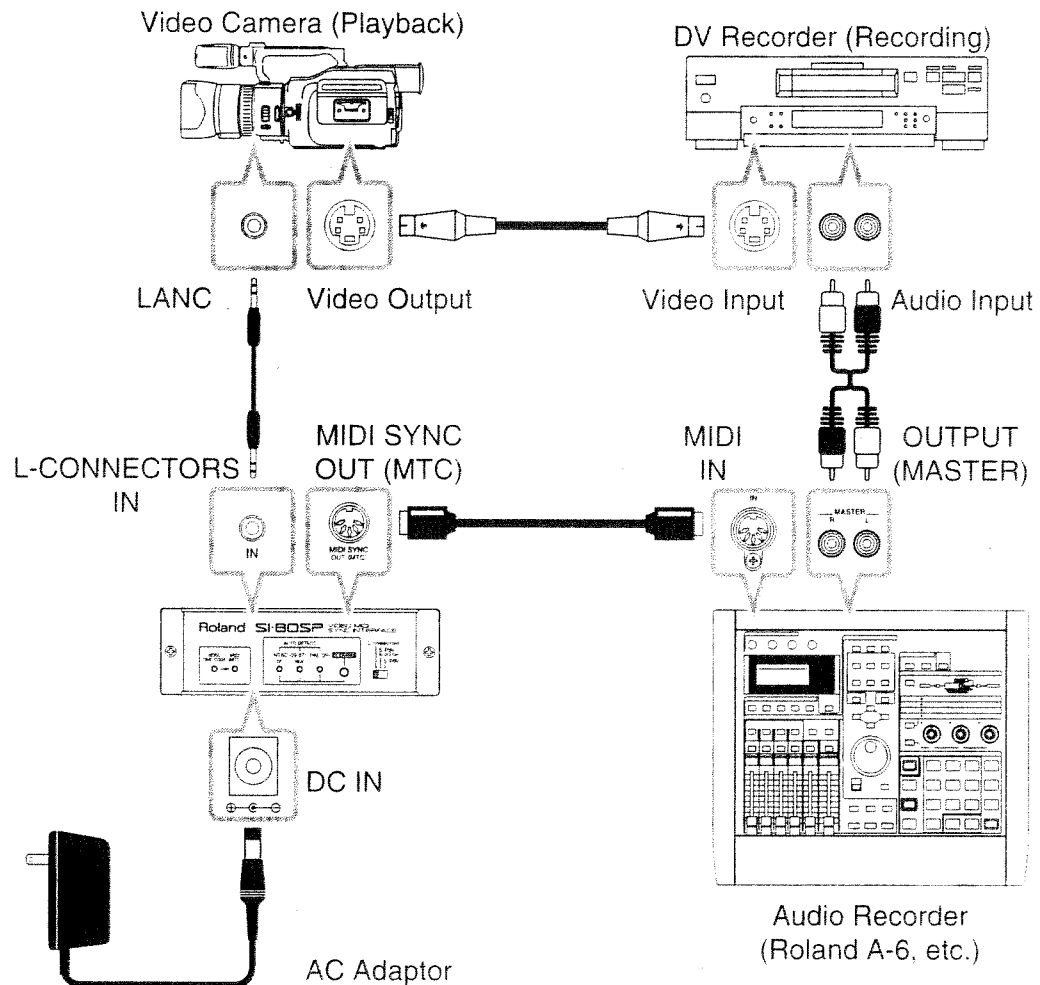


2. Turn on the power to the DV recorder.
3. Plug the AC adapter into a power outlet.
4. Turn on the power to the audio recorder (such as the A-6).
5. Turn on the power to the audio equipment.
6. Adjust the volume of the audio equipment to an appropriate level.
7. Turn the counter display to "Time Code (00h00m00s00f)" on the DV recorder so that the time code can be transmitted.
8. Set the LANC mode to "S (slave)" on the DV recorder.

Copying to Another Video cassette Recorder

Copy the video from the DV recorder together with the audio from the audio recorder to another videocassette recorder. You can make a master tape even when the format of the second video tape (such as VHS) is different from the first video tape (the original DV tape).

Make the connections as shown below.



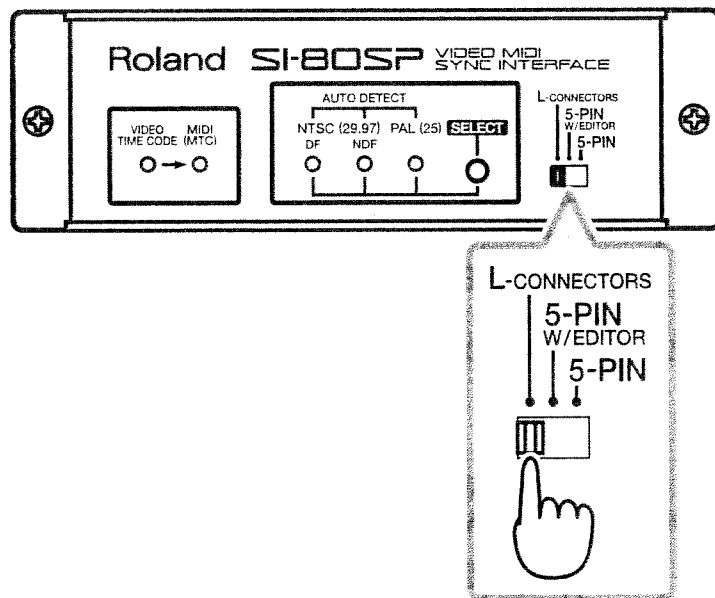
* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

* 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.

Using a Sony DV Recorder (Connected to the LANC Connector)

* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

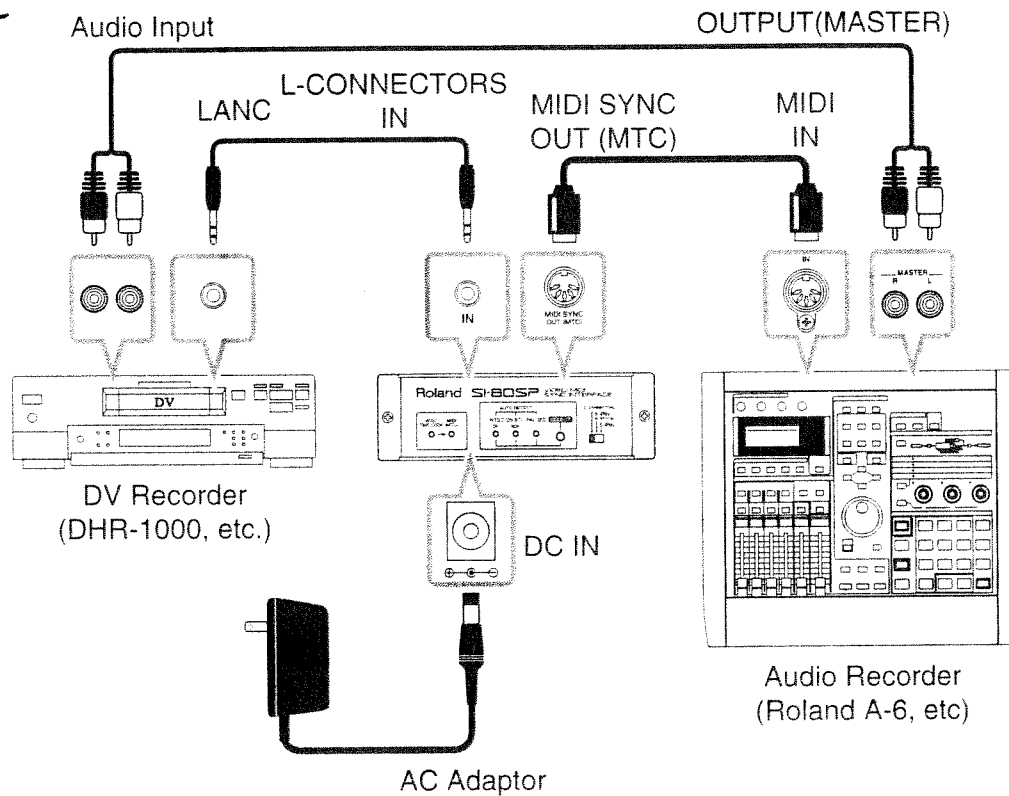
1. Set the selector switch on the SI-80SP to "L-CONNECTORS" (the left-hand setting).



2. Turn on the power to the video cassette recorder (the playback unit).
3. Plug the AC adapter into a power outlet.
4. Turn on the power to the audio recorder (such as the A-6).
5. Turn on the power for the DV recorder (the recording unit).
6. Turn the counter display to "Time Code (00h00m00s00f)" on the playback unit so that the time code can be transmitted.
7. Set the LANC mode to "S (slave)" on the playback unit.

Audio Dubbing and Insertion with Your DV Recorder

If you're using a DV recorder such as the DHR-1000 or the DSR-30 that is equipped with post-production audio-recording or audio-insertion features, you can replace the audio on the original video tape (the original DV tape) with the audio from the audio recorder (such as the A-6). Make the connections as shown below.



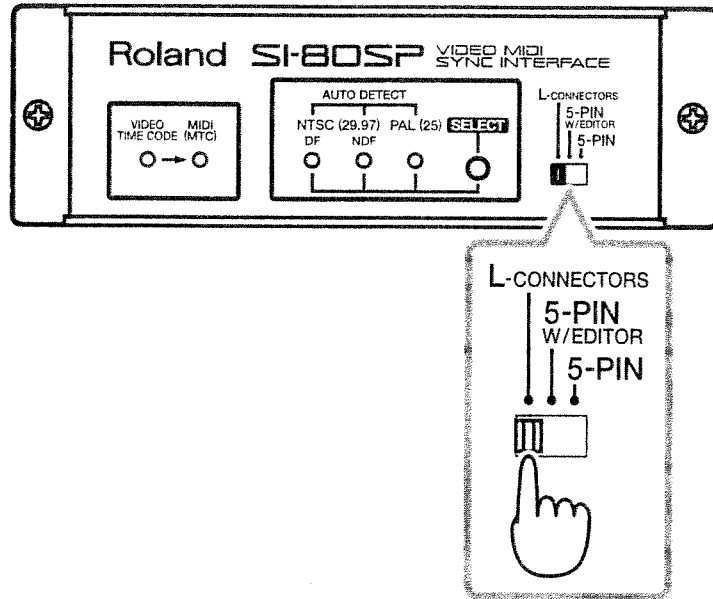
* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

* 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.

* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

Using a Sony DV Recorder (Connected to the LANC Connector)

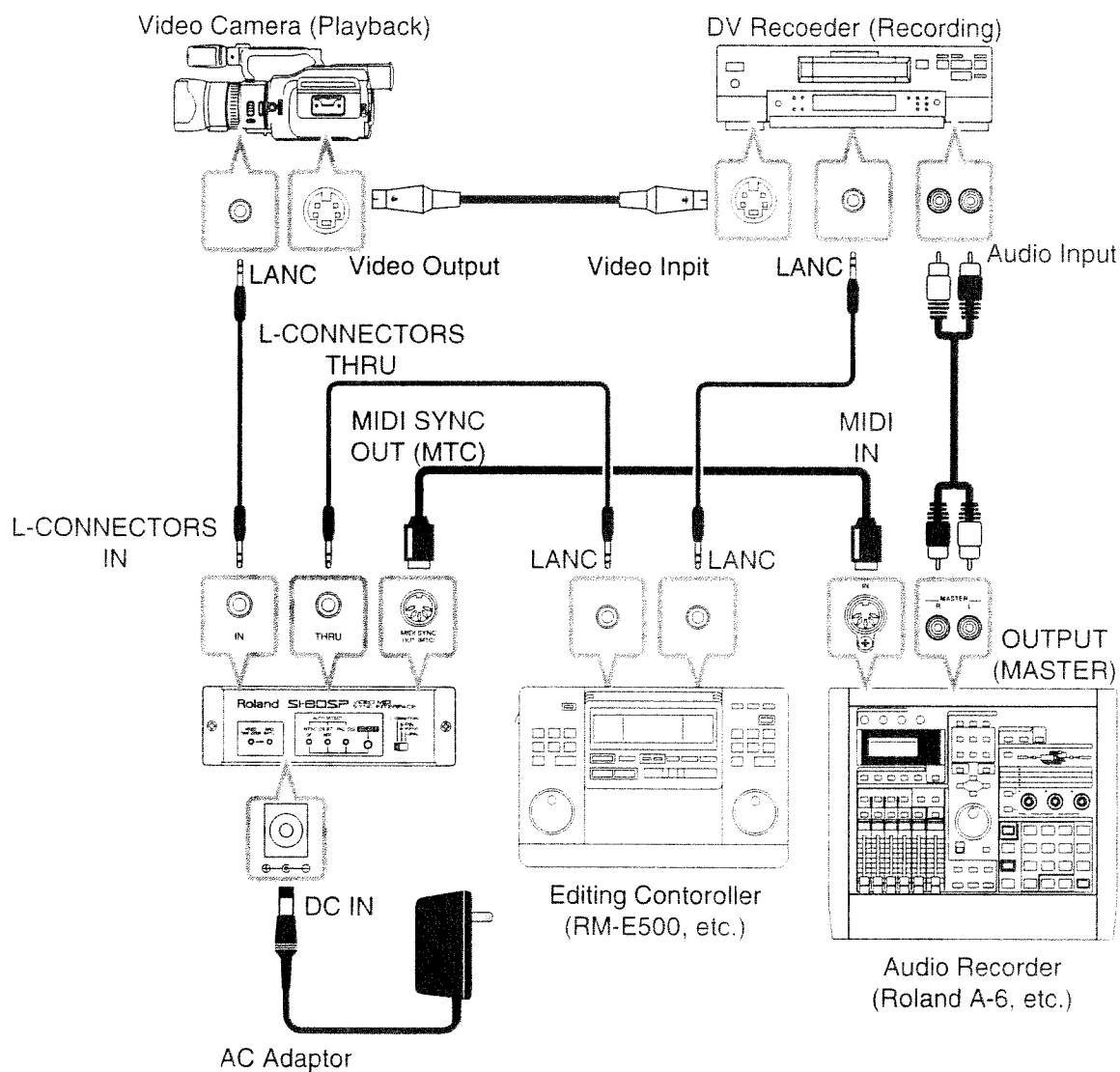
1. Set the selector switch on the SI-80SP to "L-CONNECTORS" (the left-hand setting).



2. Turn on the power for the DV recorder.
3. Plug the AC adapter into a power outlet.
4. Turn on the power to the audio recorder (such as the A-6).
5. Turn the counter display to "Time Code (00h00m00s00f)" on the DV recorder so that the time code can be transmitted.
6. Set the LANC mode to "S (slave)" on the DV recorder.
7. Set the MTC Offset to "- (minus) 00h00m00s05f" on the audio recorder.

Using an Editing Control Unit

If you want to use an editing control unit (such as the RM-E500) to operate the video cassette recorders (the recording and playback units), make the connections as shown below.



* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

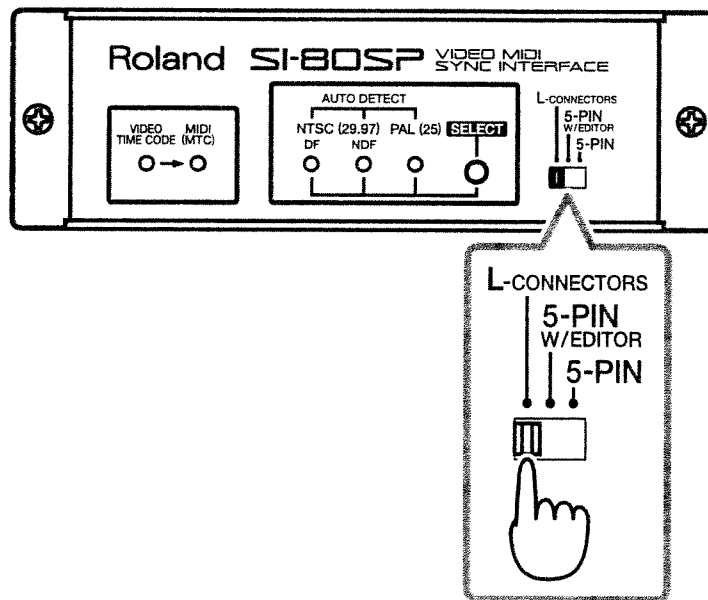
Using a Sony DV Recorder (Connected to the LANC Connector)

* 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.

* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

* Time code that is input to the L-CONNECTORS (IN) is not output to the 5-PIN EDITING TERMINALS (THRU).

1. Set the selector switch on the SI-80SP to "L-CONNECTORS" (the left-hand setting).



2. Turn on the power to the video cassette recorders (the recording and playback units).
3. Plug the AC adapter into a power outlet.
4. Turn on the power to the audio recorder (such as the A-6).
5. Turn on the power to the editing control unit.
6. Turn the counter display to "Time Code (00h00m00s00f)" on the playback unit so that the time code can be transmitted.
7. Set the LANC mode to "S (slave)" on the playback unit.

Using a Panasonic DV Recorder (Connected to the EDIT[®] Connector)

This section describes operation when using the EDIT[®] connector to connect a Panasonic DV recorder (such as the NV-DR1 or the NV-DV10000) and the SI-80SP. Read this along with the documentation for your DV recorder and audio recorder (such as the A-6).

- * *It is impossible to connect to the Panasonic VHS recorder (5-pin editing terminal).*
- * *When the DV recorders of Sony and Panasonic are connected simultaneously, select which DV recorder to use, with the selector switch on the front panel.*

Synchronizing the Time Codes

If you're using a Panasonic DV recorder, make the frame rate of the MTC (MIDI Time Code) that the SI-80SP sends to the audio recorder (such as the A-6) matches the frame rate of the video time code.

The corresponding frame rate of the time code may vary according to your country or video equipment. The types of MTC (MIDI Time Code) that the SI-80SP can send are listed below. The corresponding indicator lights up to show the MTC frame rate that is presently being sent.

NTSC (29.97) DF: This is drop frame at a rate of 29.97 frames per second. It is used in the NTSC color video standard.

NTSC (29.97) NDF: This is non-drop frame at a rate of 29.97 frames per second. It is used in the NTSC color video standard.

PAL (25): This is a frame rate of 25 frames per second. It is used in SECAM- and SECAM-standard video and audio equipment as well as in motion pictures.

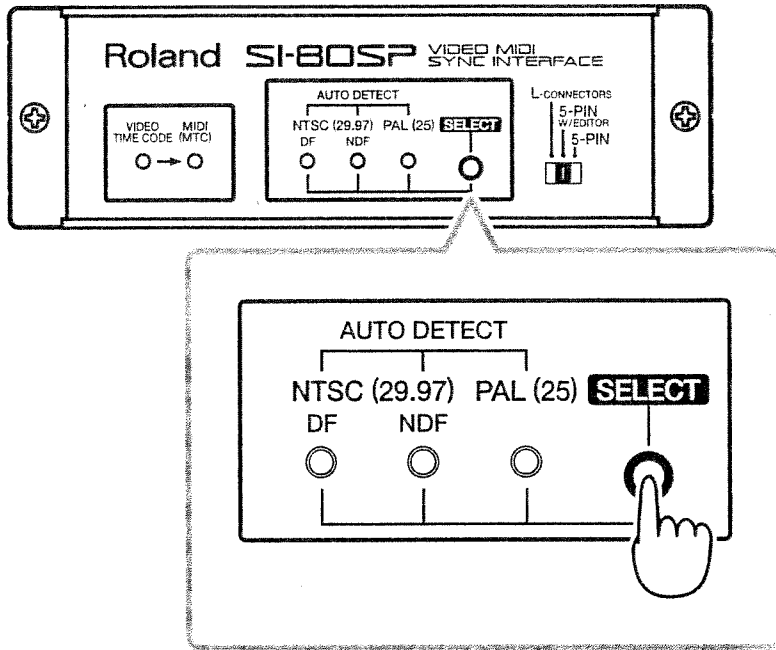
About Time Codes (NTSC Format)

Time codes such as the following are generally used for NTSC-format video equipment. The setting should normally be left at NTSC (29.97) DF.

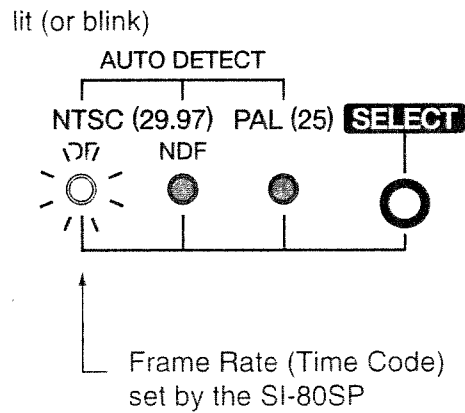
MiniDV (consumer-use DV recorders):	29.97DF
DVCAM (commercial-use DV recorders):	29.97NDF or 29.97DF (selectable)

1. Plug the AC adapter into a power outlet.
2. Press the [SELECT] button. Each press of the button switches the frame rate.

Using a Panasonic DV Recorder (Connected to the EDIT (E) Connector)



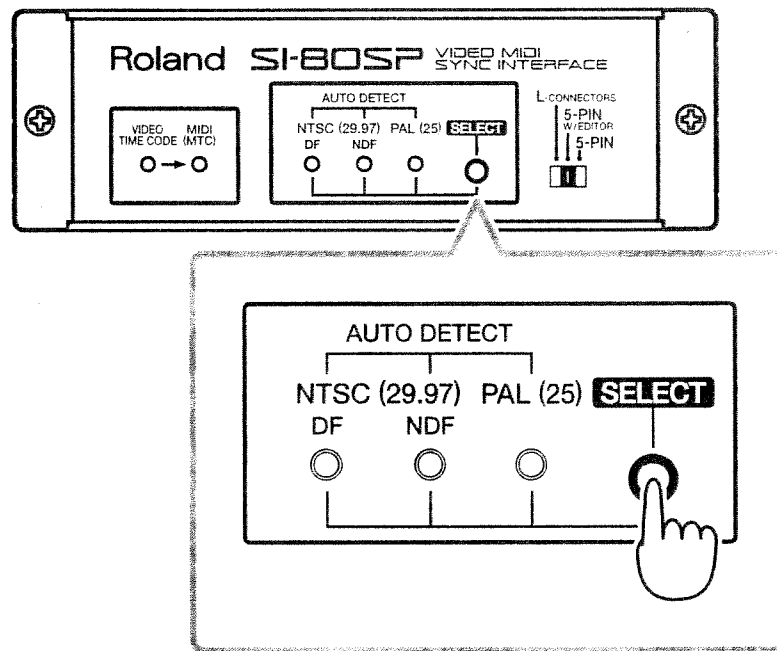
3. The AUTO DETECT/SELECT indicator lights up or blinks to show the present frame rate.



Saving the Time Code Settings

When the AUTO DETECT/SELECT indicator is blinking, it means the frame rate was changed. If the power to the SI-80SP is turned off while in this state, the time-code settings are lost. Follow the steps below to save the settings.

1. Hold down the [SELECT] button for at least three seconds. The indicator showing the present frame rate blinks somewhat rapidly.



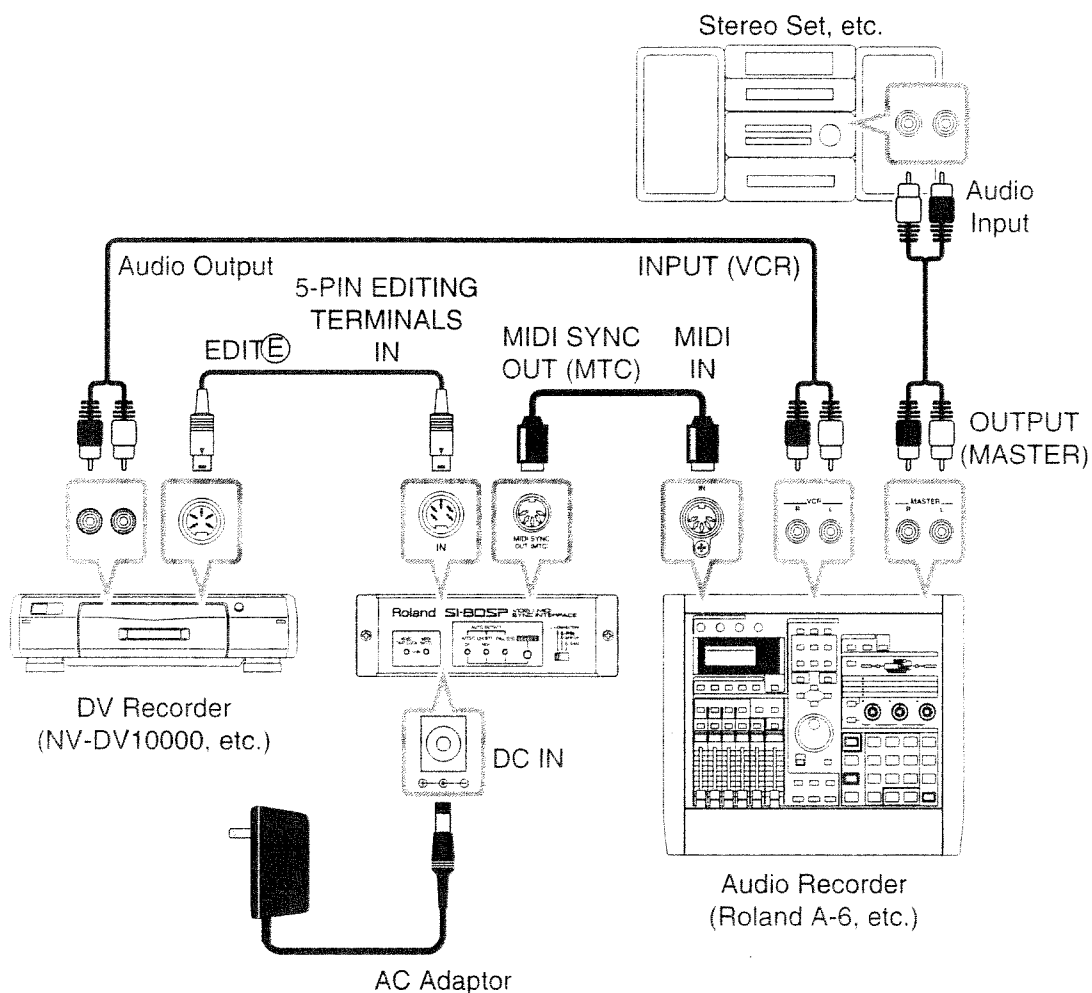
2. When all the indicator are lighted, release the [SELECT] button. The settings are saved in internal memory, and remain in memory even after the power is turned off.

* Saving may take up to 30 seconds. Never switch the power off while all indicators are lighted. Doing so may damage the SI-80SP's systems.

3. When the save is finished, only the indicator for the changed frame rate remains lighted.


Recording a Video Tape's Simultaneous Audio Track on an Audio Recorder (A-6, Etc.)

Now let's record the audio that's recorded on video tape simultaneously with the video (the synchronized audio) on an audio recorder (such as the A-6). Make the connections as shown below.



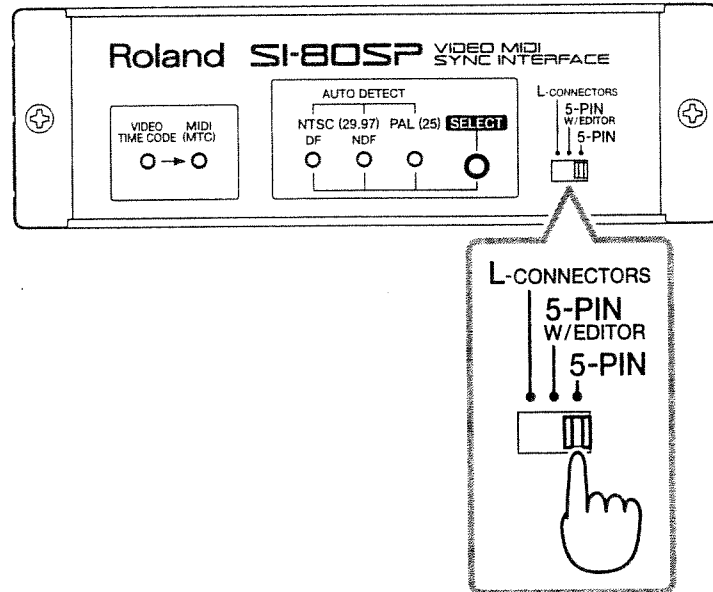
* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

* 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.

Using a Panasonic DV Recorder (Connected to the EDIT  Connector)

* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

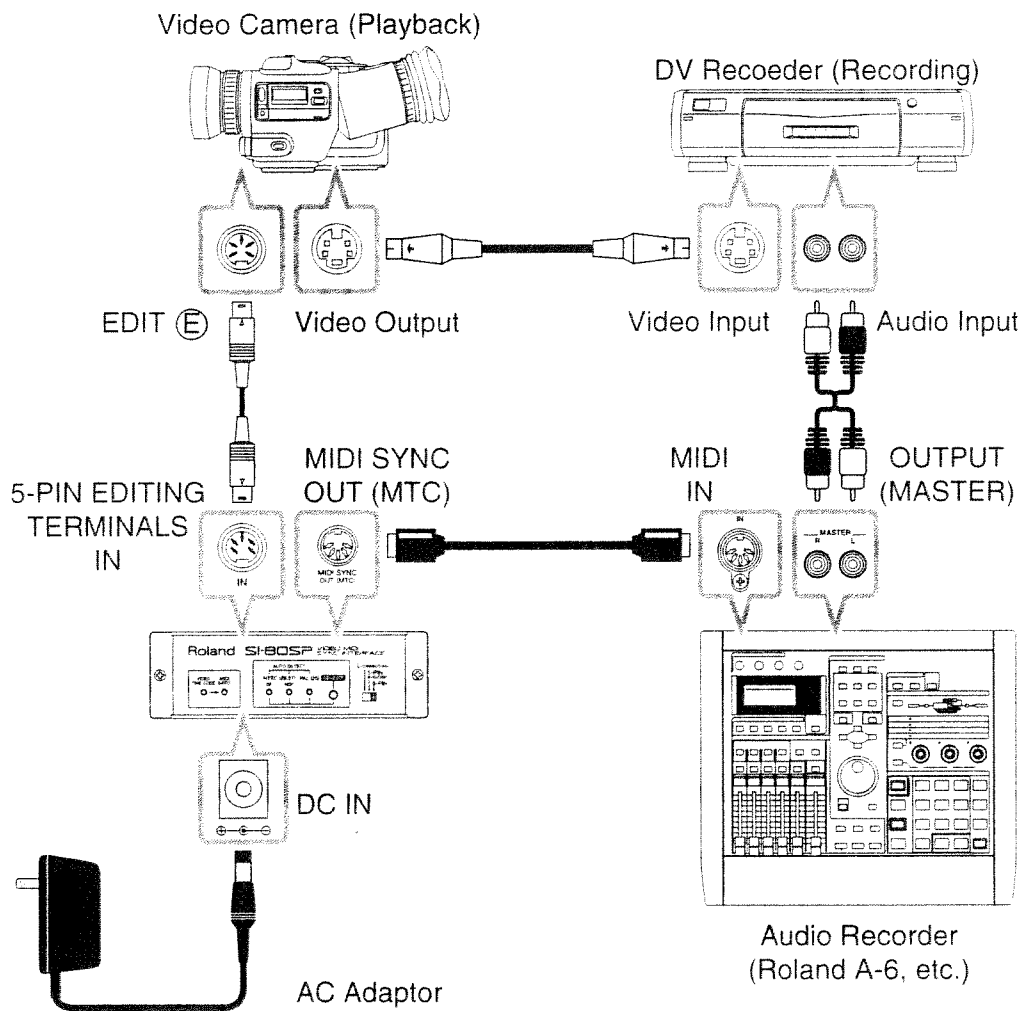
1. Set the selector switch on the SI-80SP to "5-PIN" (the right-hand setting).



2. Turn on the power to the DV recorder.
3. Plug the AC adapter into a power outlet.
4. Set the time code of the SI-80SP according to your DV recorder in use (p.21).
5. Turn on the power to the audio recorder (such as the A-6).
6. Turn on the power to the audio equipment.
7. Adjust the volume of the audio equipment to an appropriate level.
8. Turn the counter display to "Time Code (00h00m00s00f)" on the DV recorder so that the time code can be transmitted.

Copying to Another Video Cassette Recorder

Copy the video from the DV recorder together with the audio from the audio recorder to another video cassette recorder. You can make a master tape even when the format of the second video tape (such as VHS) is different from the first video tape (the original DV tape).
Make the connections as shown below.



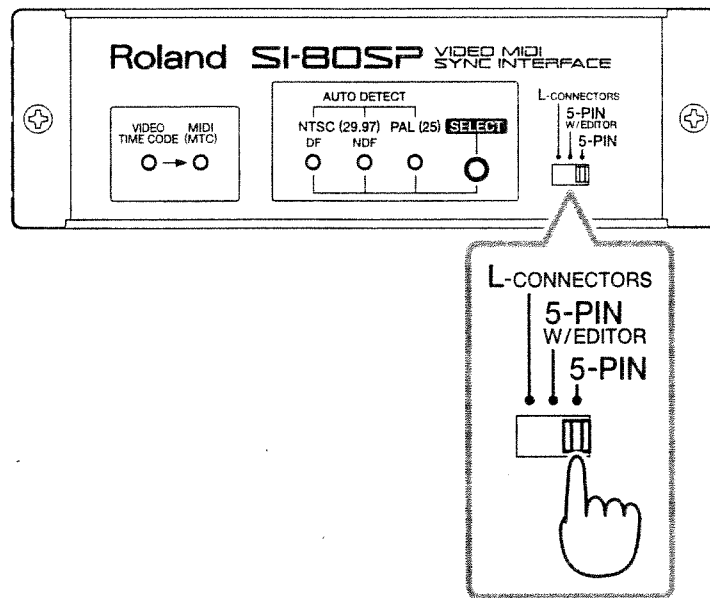
** To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.*

Using a Panasonic DV Recorder (Connected to the EDIT  Connector)

* 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.

* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

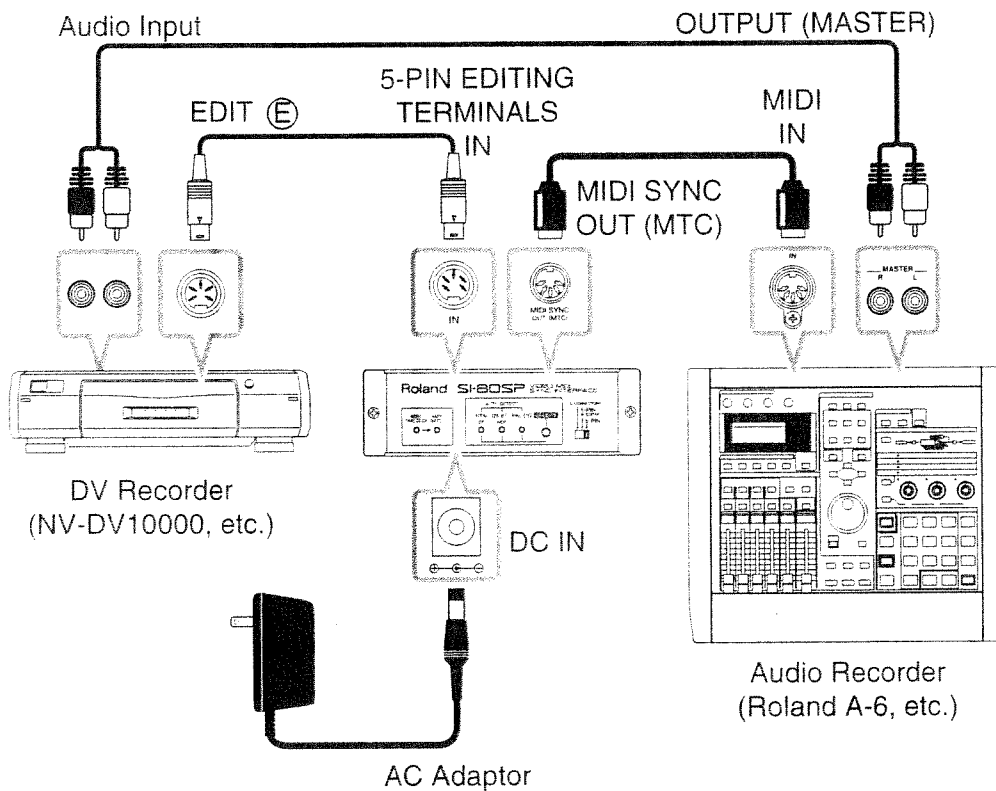
1. Set the selector switch on the SI-80SP to "5-PIN" (the right-hand setting).



2. Turn on the power to the videocassette recorder (the playback unit).
3. Plug the AC adapter into a power outlet.
4. Set the time code of the SI-80SP according to your video cassette recorder (playback unit) in use (p.21).
5. Turn on the power to the audio recorder (such as the A-6).
6. Turn on the power for the DV recorder (the recording unit).
7. Turn the counter display to "Time Code (00h00m00s00f)" on the playback unit so that the time code can be transmitted.

Audio Dubbing and Insertion with Your DV Recorder

If you're using a DV recorder such as the NV-DV1000 that is equipped with post-production audio-recording or audio-insertion features, you can replace the audio on the original video tape (the original DV tape) with the audio from the audio recorder (such as the A-6). Make the connections as shown below.

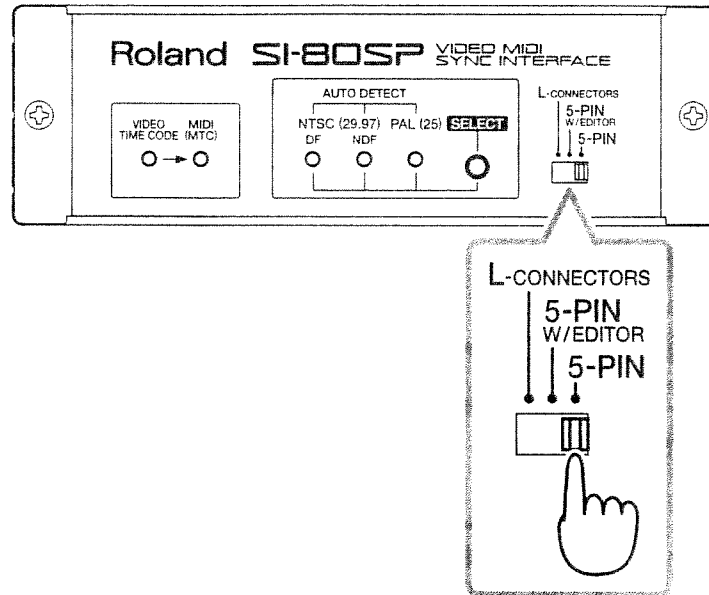


* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

* 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.

* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

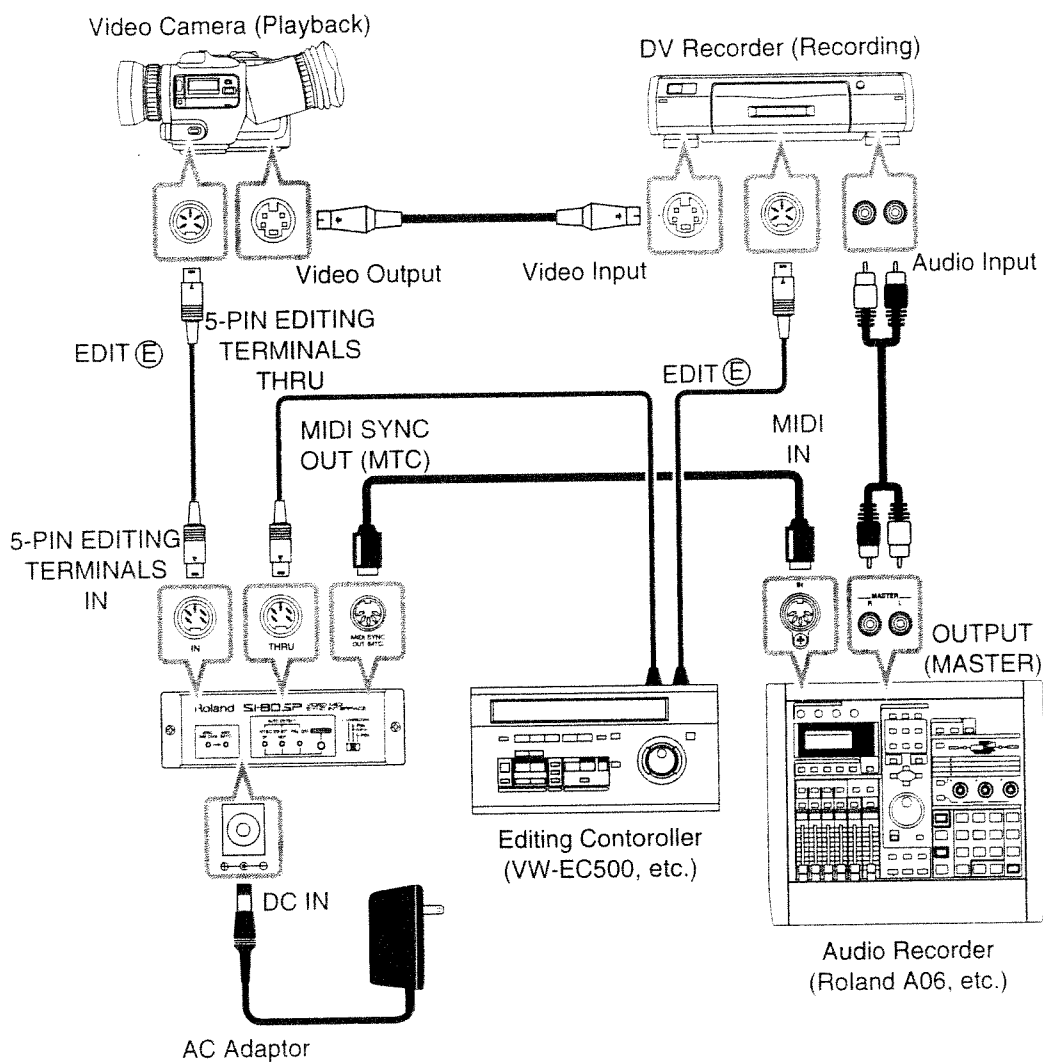
1. Set the selector switch on the SI-80SP to "5-PIN" (the right-hand setting).



2. Turn on the power for the DV recorder (the playback unit).
3. Plug the AC adapter into a power outlet.
4. Set the time code of the SI-80SP according to your DV recorder (playback unit) in use (p.21).
5. Turn on the power to the audio recorder (such as the A-6).
6. Turn the counter display to "Time Code (00h00m00s00f)" on the DV recorder so that the time code can be transmitted.
7. Set the MTC Offset to "- (minus) 00h00m00s05f" on the audio recorder.

Using an Editing Control Unit

If you want to use an editing control unit (such as the VW-EC500) to operate the videocassette recorders (the recording and playback units), make the connections as shown below.



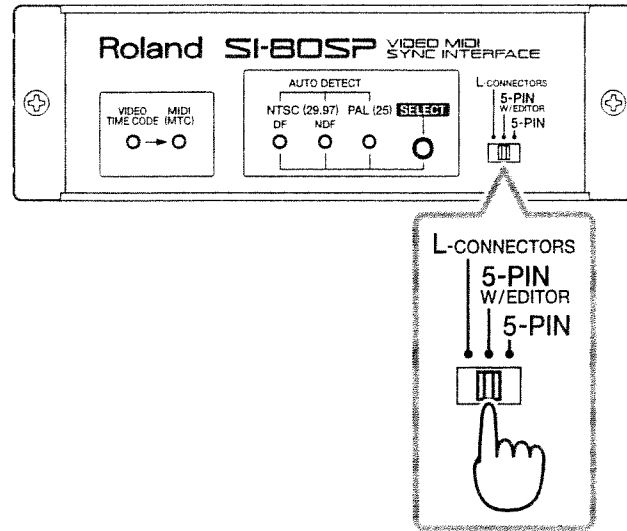
* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

* 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.

Using a Panasonic DV Recorder (Connected to the EDIT Ⓢ Connector)

* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

1. Set the selector switch on the SI-80SP to "5-PIN W/EDITOR" (the center setting).



2. Turn on the power to the video cassette recorders (the recording and playback units).
3. Plug the AC adapter into a power outlet.
4. Set the time code of the SI-80SP according to your video cassette recorder (playback unit) in use (p.21).
5. Turn on the power to the audio recorder (such as the A-6).
6. Turn on the power to the editing control unit.
7. Set the counter display to "Time Code (00h00m00s00f)" on the playback unit so that the time code can be transmitted.

When You Can't Use an Editing Control Unit

If you're using video equipment that doesn't support time-code output with frames (such as the Panasonic NV-DJ1 or NV-DR1), you cannot use an editing control unit. At this time, set the selector switch on the SI-80SP to "5-PIN" (the right-hand setting) and use with no editing control unit connected. (p.25, p.27, p.29)

Troubleshooting

The audio recorder doesn't start as expected when the [▶] (playback) button on the video deck is pressed.

If You're Using Sony Video Equipment (DV Recorder)

- Is the LANC cable properly connected? (p. 13, 15, 17, 19)
- Is the MIDI cable properly connected? (p. 13, 15, 17, 19)
- Is the selector switch set "L-CONNECTORS?" (p. 14, 16, 18, 20)
- Is the DV recorder set as it outputs the time code? (p.14, 16, 18, 20)
- Is the audio recorder set up for MTC slave operation?

If You're Using a Panasonic DV Recorder

- Is the Panasonic cable properly connected? (p. 24, 26, 28, 30)
- Is the MIDI cable properly connected? (p. 24, 26, 28, 30)
- Is the selector switch set to "5-PIN?" (p. 25, 27, 29)
- Do the time codes (frame rates) for the video equipment match those for the SI-80SP and the audio recorder? (p. 21)
- Is the DV recorder set as it outputs the time code? (p.25, 27, 29, 31)
- Is the audio recorder set up for MTC slave operation?
- If you're using an editing control unit, does the video equipment support time-code output with frames? (p. 31)
- If you're using an editing control unit, is the selector switch set to "5-PIN W/EDITOR?" (p. 31)

All of the indicators remain blinked after the power is turned on.

Immediately turn the power off, then contact your nearest Roland Service Center or authorized Roland distributor.

Glossary

Drop Frame

This is one type of SMPTE time code format. The frame rate of the NTSC-format time codes adopted by the U.S.A. and Japan is precisely 29.97 frames per second. This means that a discrepancy with actual (clock) time occurs over long recording times. Drop frame corrects this discrepancy by dropping the first two frames of every minute except the 10th, 20th, 30th, 40th, and 50th (by starting from frame 02 instead of frame 00). This is used at places such as television stations where time codes must match actual televised times.

EDIT(E) Connector

This connector allows connection of Panasonic video equipment (a DV recorder) and an audio recorder (such as the A-6).

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.

L-Connector

This connector allows connection of Sony video equipment (a DV recorder) and an audio recorder (such as the A-6).

LANC

This is an abbreviation for **Local Application Control Bus System**. This is a standard for connecting video equipment with peripheral equipment, as well as controlling tape travel and the like.

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 format or PAL format.

Non-drop Frame

This is one type of SMPTE time code format. The frame rate of the NTSC-

format time codes adopted by the U.S.A. and Japan is precisely 29.97 frames per second. This means that a discrepancy with actual (clock) time occurs over long recording times. Non-drop frame places more importance on time-code continuity than this discrepancy, and does not drop time codes. This format is used in general video and music production.

RC Time Code

This is an abbreviation of **Rewritable Consumer Time Code**. It sequences each frame of video in units of "hours:minutes:seconds:frames."

SECAM Format/PAL Format

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

SMPTE Time Code

Devised by U.S.A.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.

Specifications

SI-80SP:Video MIDI Sync Interface

Connectors/Jacks/Terminals

L-Connectors (IN, THRU)

(conforms to LANC, Stereo mini mini type: $\phi 2.5$ mm)

5-PIN Editing Terminals (IN, THRU)

(conforms to EDIT $\text{\textcircled{E}}$)

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)

LANC cable (1 m)

Panasonic 5 - pin cable (1.3 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-80SP
 Date: Nov. 21, 1998
 Version: 1.00

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)

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	xxxxyyyyy	
	xxx	Reserved (000)
	yyyyy	Frame No.(0 - 29)
Seconds Count	xxyyyyyy	
	xx	Reserved (000)
	yyyyyy	Seconds (0 - 59)
Minutes Count	xxyyyyyy	
	xx	Reserved (00)
	yyyyyy	Minutes (0 - 59)
Hours Count	xyzzzzz	

2. MIDI Machine Control

■ System Exclusive Messages

● MIDI Machine Control Command Reference

○ STOP (MCS)

Status	Data Bytes	Status
F0H	7FH, 7FH, 06H, 01H	F7H

Byte	Description
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)

Status	Data Bytes	Status
F0H	7FH, 7FH, 06H, 03H	F7H

Byte	Description
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)

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.

Model SI-80SP MIDI Implementation Chart

MIDI Implementation Chart

Function...	Transmitted	Recognized	Remarks
Basic Channel	X X	X X	
Mode	X X *****	X X	
Note Number : True Voice	X *****	X	
Velocity	X X	X X	
After Touch	X X	X X	
Pitch Bend	X	X	
	0 - 95 1	X X	Modulation
	6, 38 7 10 64	X X X X	Data entry Volume Pan Hold 1
Control Change	100, 101	X	RPN LSB, MSB

Program Change : True #	X *****	X		
System Exclusive	O	* 1	X	
System Common	O : Quarter Frame : Song Pos : Song Sel : Tune		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).			

O : Yes
X : No

Mode 1 : OMNI ON, POLY
Mode 2 : OMNI ON, MONO
Mode 3 : OMNI OFF, POLY
Mode 4 : OMNI OFF, MONO

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

For EU Countries

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 the USA

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.

For Canada

Information

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

Roland

ARGENTINA

Instrumentos Musicales S.A.
Florida 656 2nd Floor
Office Number 206A
Buenos Aires
ARGENTINA, CP1005
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Roland Brasil Ltda.
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203 05522-010
Sao Paulo BRAZIL
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Casa Veerkamp, s.a. de c.v.
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TEL: (525) 668 04 80

La Casa Wagner de
Guadalajara s.a. de c.v.
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Guadalajara, Jalisco Mexico
C.P. 44100 MEXICO
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Centro Parque de Cristal, Nivel
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Il. Gajah Mada No. 3-5,
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Houtstraat 1 B-2260 Oevel-
Westerlo BELGIUM
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UL Rabkorovskaya 17
220001 MINSK
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Radex Sound Equipment Ltd.
17 Diagonou St., P.O. Box 2046,
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20, Alexandras St. & Bouboulinas
54 St. 106 82 Athens, GREECE
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Warehouse Area "DEPO" P. 83
H-2046 Torokbalint, HUNGARY
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The Dublin Service Centre
Audio Maintenance Limited
11 Brunswick Place Dublin 2
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Roland Italy S. p. A.
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SI-80SP Q&A

1998. 12. 17, 1st edition

This Q&A explains more effective use of the SI-80SP functions described in the SI-80SP Owner's manual; gives you a hint of how to use the SI-80SP effectively by mixing the functions; and explains some important matters when you use the SI-80SP with the external equipment.

Q: I am using the SI-80SP with the Roland A-6. How can I edit the A-6's settings?

A: Set the each parameter of A-6 as follows.

SYNC: AUTO
MTC Type: matches to video device

1. While holding down [SHIFT], press [SET UP (AUTO)].
2. Press [▲] or [▼] until "MTC Type" is highlighted in the display.
3. Rotate the [TIME/VALUE] dial to set this to match the time code type used by the video device. If you are using a DV recorder, set this to "29.97D." If you are using a Hi-8 recorder, set this to "29.97N."

SYNC SETUP	Rx: ???
SyncSource	AUTO
MTC Type	29.97D
▼ MMC Mode	SLAVE

4. Press [DISPLAY(HOME)] several times until the Big Time Code screen appears in the display.
5. Make sure that the [AUTO (SET UP)] button is lit.
If not, press [AUTO (SET UP)].
6. Turn the counter display to "Time Code (00h00m00s00f)" on the video device.

Q: I am using the SI-80SP with the Roland VS-1680. How can I edit the VS-1680's settings?

A: Set the each parameter of VS-1680 as follows.

MIDI SysEx.Rx: ON
MIDI MMC: SLAVE
SYNC MTC Type: matches to video device

1. Hold down [SHIFT] and press [F5(SYSTEM)].
2. Press [F4(MIDI)].
3. Press [▲], [▼], [◀] and [▶] to move the cursor to "SysEx.Rx."
4. Rotate TIME/VALUE dial to select "ON."

SysEx.Rx	Off	√ON
----------	-----	-----

5. Press [▲], [▼], [◀] and [▶] to move the cursor to "MMC."
6. Rotate TIME/VALUE dial to select "SLAVE."

MMC	Off	MASTER	√SLAVE
-----	-----	--------	--------

7. Hold down [SHIFT] and press [EXT SYNC].
8. Press [▲], [▼], [◀] and [▶] to move the cursor to "Sync MTC Type."
9. Rotate the [TIME/VALUE] dial to set this to match the time code type used by the video device. If you are using a DV recorder, set this to "29.97D." If you are using a Hi-8 recorder, set this to "29.97N."

SYNC MTC Type	29.97D
---------------	--------

(turn over...)

10. Press [PLAY(DISPLAY)].
11. Press [EXT SYNC] button so that EXT SYNC indicator blinks orange.
12. Turn the counter display to "Time Code (00h00m00s00f)" on the video device.

Q: I am using the SI-80SP with the Roland VS-880EX. How can I edit the VS-880EX's settings?

A: Set the each parameter of VS-880EX as follows.

MIDI SysEx.Rx: On
 MIDI MMC: SLAVE
 Sync MTC Type: matches to video device

1. Press [SYSTEM] several times until "SYS MIDI PRM ?" appears in the display.
2. Press [YES].
3. Press PARAMETER [▶▶] several times until "SYS MID:SysEx.Rx=" appears.
4. Use the TIME/VALUE dial to set this "On."

SYS MID:SysEx.Rx= On

5. Press PARAMETER [▶▶] several times until "SYS MID:MMC=" appears.
6. Use the TIME/VALUE dial to set this "SLAVE."

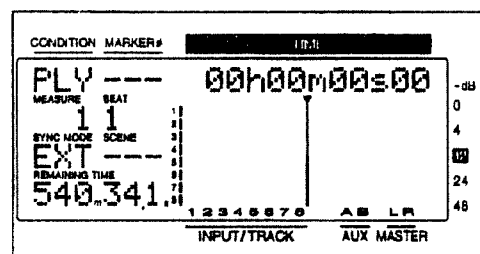
SYS MID:MMC= SLAVE

7. Press [SYSTEM] several times until "SYS Sync/Tempo ?" appears.
8. Press [YES].
9. Press PARAMETER [▶▶] several times until "SYS Syn:MTC Type=" appears.

10. Rotate the [TIME/VALUE] dial to set this to match the time code type used by the video device. If you are using a DV recorder, set this to "29.97D." If you are using a Hi-8 recorder, set this to "29.97N."

SYS Syn:MTC Type=29D

11. Press [PLAY(DISPLAY)].
12. Hold down [SHIFT] and press [SYSTEM] so that "EXT" appears in the SYNC MODE area.



Using the DCR-TRV900 NTSC

1999. 01. 18, 2nd edition

Manual Settings and Automatic

Recognition of Time Codes

When connected using the LANC connector, the SI-80SP reads the time codes sent from the video equipment and automatically determines whether they are drop frame or non-drop frame time codes. This means that is you are using a Sony DV recorder, there's normally no particular need to set the time code.

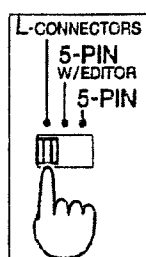
You can also manually set the time code sent from the SI-80SP (drop frame or non-drop frame), as required.

Using a DCR-TRV900 (Manual Setting the Sent Time Code)

If you're using a Sony DCR-TRV900 NTSC DV camera, the synchronization of the audio recorder may become unstable (audio may waver or drop out). This happens because the information attached to the time code (the information for the SI-80SP to determine either drop frame or non-drop frame) is at "29.97 non-drop frame," even though the time code itself sent from the DCR-TRV900 is actually at "29.97 drop frame."

In such cases, manually set the time code sent from the SI-80SP to "29.97 drop frame." The following procedure describes how to do this.

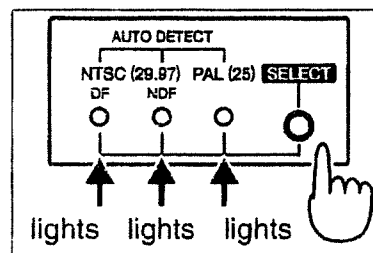
1. Unplug the AC adapter from the power outlet (this turns off the power to the SI-80SP).
2. Set the selector switch on the SI-80SP to "L-CONNECTORS" (the left-hand setting).



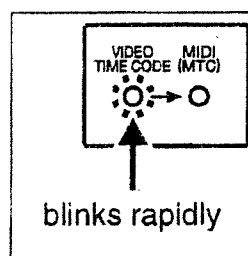
3. While holding down the [SELECT] button, plug in the AC adapter to the power outlet (this turns on the power to the SI-80SP).

* *If the selector switch is set to except "L-CONNECTORS" (the left-hand), never switch the power on while holding down [SELECT]. Doing so may damage the SI-80SP's system.*

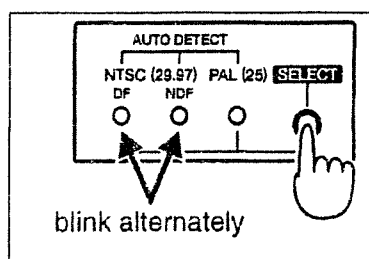
4. When all three AUTO DETECT/SELECT indicators light up, release the [SELECT] button.



5. The VIDEO TIME CODE indicator blinks at a fairly fast rate to indicate that you can manually set the time code that is sent.



6. Press the [SELECT] button several times so that the NTSC (29.97) DF and the NDF AUTO DETECT/SELECT indicators blink in alternation.

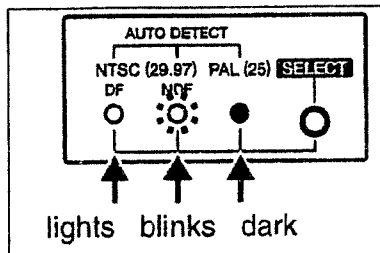


(turn over...)

7. Hold down the [SELECT] button for at least three seconds. The AUTO DETECT/SELECT indicators flash at a fairly rapid interval.
8. When all three AUTO DETECT/SELECT indicators light up, release the [SELECT] button.
The settings are saved in internal memory, and remain in memory even after the power is turned off.

* **Saving may take up to 30 seconds. Never switch the power off while all indicators are lighted. Doing so may damage the SI-80SP's systems.**

9. When the save operation finishes, make sure the status of the indicators is as shown below.

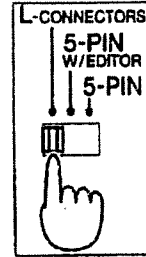


Returning to Automatic Recognition of Time Codes

If you want to return to automatic recognition of the time codes sent from the SI-80SP, follow the steps below.

1. Unplug the AC adapter from the power outlet (this turns off the power to the SI-80SP).

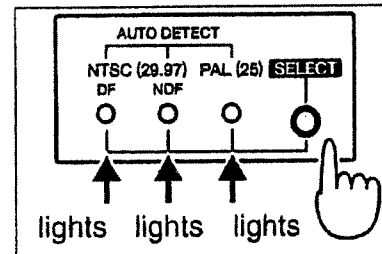
2. Set the selector switch on the SI-80SP to "L-CONNECTORS" (the left-hand setting).



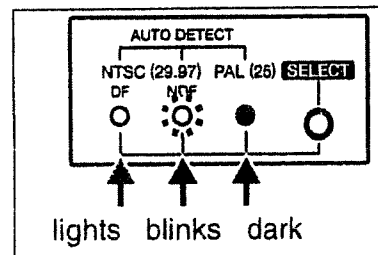
3. While holding down the [SELECT] button, plug in the AC adapter to the power outlet (this turns on the power to the SI-80SP).

* **if the selector switch is set to except "L-CONNECTORS" (the left-hand), never switch the power on while holding down [SELECT]. Doing so may damage the SI-80SP's system.**

4. When all three AUTO DETECT/SELECT indicators light up, release the [SELECT] button.



5. The VIDEO TIME CODE indicator lights up to indicate that the time codes can be recognized automatically.



(end)

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