Dear Stein:

The following deals with the requirements for the new synchronizers. When you unpack them make sure all the cards are firmly pushed into the backplane and the front ribbon cables are connected as well. When connecting make sure all synchronizers cables are screwed in tightly. All units have been tested before leaving here so contact us before any attempt at repair. Russ Gritzo will provide a complete detailed manual soon.

I have labeled them 2-1, 2-2, and 2-3 for 2 channel and 4-1, 4-2 and 4-3 for 4 channel. The 2 ch synchronizers are already programmed for Borealis (2-1 and 2-2) and The West (2-3) so you should not have to touch them. They are labeled on the unit as well as the boxes. Connect the synchronizer cables to the lasers and it should run properly after a about a minute (from a cold start). The old synchronizer is 4-1 and should already be programmed for Tokyo Four so you should not need the thumbwheel (THUMB 1). You will need to use THUMB 2 to program synchronizers 4-2 and 4-3 as I did not have the discs here to do it (Pyroglyphs and Ptolemy). The procedure is listed below. If you do not understand it please let me know as soon as possible as we will be in the Museum staring Monday.

FRAME SETTING PROCEDURES FOR SYNCHRONIZERS

There are two way to set the starting and ending frame numbers. The first uses the Thumbwheel and the second uses a terminal program with a computer.

THUMBWHEEL
There are 3 two and 3 four channel synchronizers included in this second shipment. All the synchronizers EXCEPT 4-1 (which is the
old one) work the same way and use THUMB 2 only to set starting and ending frames. To set or change frame numbers use the following procedure for 2-1, 2-2, 2-3, 4-2 and 4-3.

1) Set starting frame (left) and ending frame (right) on thumbwheel labeled "THUMB 2"
2) Connect thumbwheel labeled "THUMB 2" to port "T" on synchronizer.
3) Connect synchronizing cables to laser players.
4) Power on laser players and then power on synchronizer.
5) After a minute or so laser players should begin synchronized play.
6) Disconnect Thumbwheel and repeat steps 1) to 5) for next installation.

*******IMPORTANT*******
Synchronizer 4-1 and thumbwheel labeled "THUMB 1" are to be used together and with no others. The above procedure should work for setting frames on 4-1 with change that "THUMB 1" should be used. You should not need to set frames on this synchronizer as it has already been programmed for Tokyo Four.

*******IMPORTANT*******

TERMINAL COMMUNICATIONS

You can also communicate with the synchronizers using a terminal program and a straight though cable (use an old RS-232 25 pin printer cable if using Mac). Once you start the terminal communication program the dialogue below will appear on the computer screen as the protocol is PROMed on the synchronizer.
EEPROM updated with new Start and End values...

Repeat Configuration? (y/[n]):

Configuration complete. Perform the following steps:
1) Switch the Run|Config switch to RUN.
2) Shut the Autosync unit off.
3) Remove the console cable and re-connect the Laser Disk.
4) Power the Autosync unit on.
NOTE: Thumbwheel switches in RUN mode override these settings!
1) Set communication at 9600 baud, 8 data, no parity, and 1 stop bit.
2a) Connect computer to Port "A" on 2 ch and set Run/Cfg to Cfg.
2b) Connect computer to Port "Con" on 4 ch and set Run/Cfg to Cfg.
3) Power up synchronizer and follow instructions as listed below (2 ch dialogue listed).
4) After frames have been entered and confirmed switch Run/Cfg to Run
5) Power down synchronizer, disconnect cable and connect laser player synchronizer cables.
6) Power up laser players and then synchronizer.
7) After a minute or so laser players should begin synchronized play.

Autosynch v4.0! (Sept 30, 1996)

EEPROM Start and End values discovered...

Enter new values for Starting and Ending frames...

CR to skip, 30 second time out to end.

Must be 5 digits each exactly

Disk 1 Start and End Values: 00006 18830: 00010 18835

Disk 2 Start and End Values: 00006 18830: 00010 18835
Dear Steina,

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********IMPORTANT*******
Destination:

Prague Airport, then:
Dum Umeni mesta Brna (Art Galery of city of Brno) 616 00 Brno,
Czech republic, (second size city in the republic, about 200 miles SE of Prague)

Sponsor:

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Czech Technology Park michalk@brno.sgi.com
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616 00 Brno Dir. Phone: +42-5-4119 1931
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Date for arrival:
October 5 1996

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