

CMP 4a / Music Tec 2a – (015)

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MULTI-INSTRUMENT SET UP (Logic Pro & TG77) & BULK DUMP TG77 DATA.

Environment Window

New > Multi Instrument.

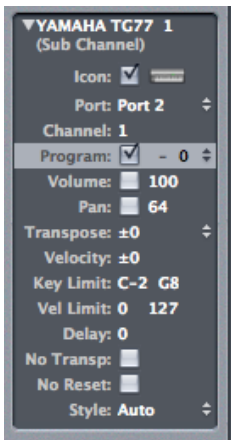
Use to communicate with a Multi-timbral synthesizer/sound module or sampler. That is a device that can receive on several MIDI channels at once, such as the Yamaha TG77.

A Multi-Instrument contains **16 Instrument set-ups**. There is a **sub-channel** for each of the **16 MIDI Channels** as indicated by the numbered squares.



Selecting one of these numbers activates that channel number and selects the corresponding sub-instrument, displaying its parameters in the **Parameter box** on the right hand side of the Environment window. In the screen shot above: Channel 10 is selected, Channels 1, 2, 3, 10, 11 & 12 are activated, and the numbers with lines through them are inactive.

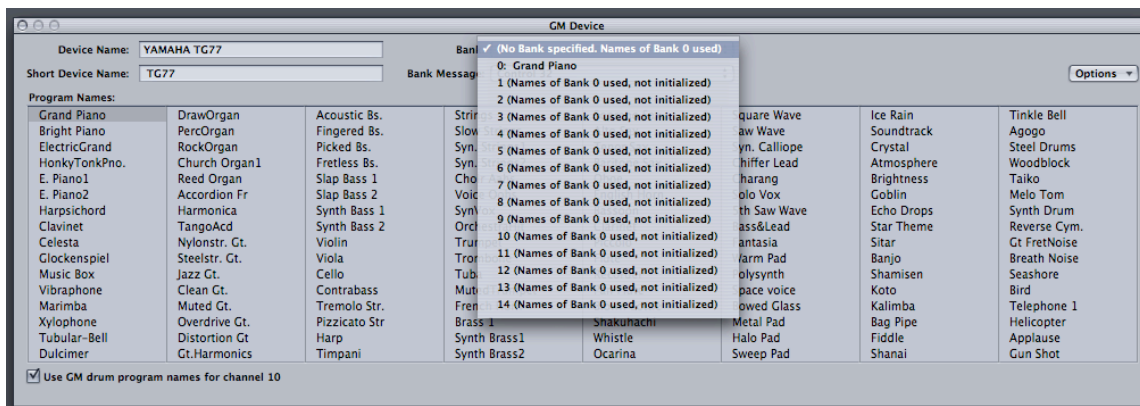
All sub-channels use the same output port of the MIDI Interface. Make sure that the Parameter Box Port Setting is the same as the one that you are sending on to your device (TG77). Below you can see that I have selected Port 2 for my studio set-up. Studio 4 could well be Port 1.



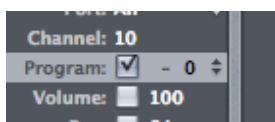
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Each Multi Instrument has 15 Banks. Each Bank can hold 128 preset names. You can see these by double clicking on the Multi-Instrument to open the **Multi-instrument window**.



If, as in the picture below, the program parameter is checked, selecting names in the name bank will send MIDI Program Change Messages to the corresponding port and channel. Also any changes will be recorded as Program Change data if in Record Mode. The same applies to the Volume and Pan Parameters.



Back in the MULTI-INSTRUMENT WINDOW, you can click on a number / name or navigate around the list with the keyboard arrows.

The Options Box (top right of the multi-instrument window) provides options for assigning names to the bank programs. Initially, they are set to the GM standard. Using cut / copy / paste you can speed up name assignments by using a text editor or word processor.

BANKS

Initialise a bank and name appropriately to how you have setup the YamahaTG77. See creating a Multi Instrument on the TG77 in the following section for ideas. You could have one bank relating to a Program Change Table if the TG77 has its Program Change utility set to **TABLE**. If the Program Change Utility is **NORMAL** You could set up program names for BANKS A, B, C & D in Memory Locations **I, P1 & P2**.

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YAMAHA TG77

Initialize a Multi:

1. Press **MULTI**
2. Press **EDIT / COMPARE**
3. Hold down **SHIFT** and press **F7** to select **Initialize page** and display (*Are you sure?*)
4. Press **YES**
5. Press **EXIT**

Select a voice for each channel

1. On the **MULTI EDIT PAGE** (Press **MULTI** then **EDIT / COMPARE**) press **F1** for Voice Select.
2. Using the arrow keys, move the cursor on the display to **select the channel** that you want to set an instrument voice for.
3. Press the **MEMORY** Button followed by the **ENTER** Key to toggle through the memory locations **I, P1 & P2**.
4. Select a voice that you like (preview using the external keyboard controller with the corresponding track selected in Logic's Arrange Window or draw notes into a region and playback in cycle mode). You can **scroll quickly** using the **DATA Slider**, **scroll slowly** using the **-1 & +1 keys**, or **enter voice numbers 1 – 64 via the keypad**.
5. Repeat these steps to setup other channel numbers.
6. To deactivate a channel and prevent it from sounding select its value as **OFF**.

Volume & Pan Settings:

1. Either press **PAGE >** or **EXIT** back to the **MULTI EDIT** Page and Press **F2** to get to the **Volume Page**
2. 8 vertical bars are displayed for either channels 1 -8 or 9- 16. Select the channel range to edit.
3. Adjust the volume bars to a desirable level.
4. **PAGE >** to the **STATIC PAN** Menu
5. Select a Channel and choose a Pan value. **Hard Left is -31**, **Hard Right is +31** and **VC** is Voice Channel where the **Pan Settings are stored as part of the internal voice settings for the instrument**. E.g. the drums will be spaced proportionately as in a drum kit layout and a piano will have the low notes to the left and the high notes to the right. Experiment!

Try out ideas with the other Edit Menus or if you are happy with Pan & Volume press **PAGE >** until you are at the **Name Menu** (*exit and F8*).

Name & Store Multi.

1. On the **Name Menu** Press **F1** to **Clear** the Display.
2. Press **Uppr F2** for Upper case and **Lowr F3** for Lower case.
3. Enter a name for your Multi. Scroll along using the arrow keys and select letters using the Keypad or Data Slider.
4. **EXIT** to see **AUTO-STORE MULTI** Flashing at the top-left of screen.

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5. **Select a Memory Location to store your MULTI**
6. **Press F8 (Go)**
7. You will see a “*Are you sure?*” message.
8. Press **YES** to store Multi.

MIDI UTILITY MODE – SETTING UP A PROGRAM CHANGE TABLE

You can assign any Multi or Voice to Program Numbers 1 – 128 in a **PROGRAM CHANGE TABLE**.

Once you have set up this table you can assign its names to a Multi-Instrument Bank in Logic for meaningful selection when swapping programs from a MIDI Track **Parameter Box** in Logic’s Arrange Window or the Tracks’ Object when selected in the Environment Window.

- **Remember** how confusing it is to see the GM default names when selecting programs on the TG77 or any other Tone Generator whose program names and sounds do not correspond to the default names in Logic?

On the TG77:

1. Press the **UTILITY** Button
2. Press **F2** for MIDI
3. Scroll to **02:Program Change** and press **Enter**.
4. Move the Data Slider to display “**Program Change = table**”
5. Press **F8** Edit

You can now personalise a Program Change table.

PC# Indicates the number of the incoming Program Change message.

Mode set to either (**Voice, Multi, Ind.V**):

Voice enters **Voice Play Mode** and will play the voice specified in the **Mem** and **Pgm** fields.

Multi enters **Multi play mode** and will select the Multi specified in the **Mem** and **Pgm** fields.

Ind.V If in Voice Play Mode the voice specified in Mem & Pgm is selected. If in Multi Play Mode, the voice selected is that specified in Mem & Pgm **for the channel** of the multi that matches the **MIDI channel** of the incoming Program Change message.

Navigate the list using keys F1 to F4.

F6 initialises the table.

Programs 1 – 128 are reset to select **PRESET** voices **P1-A01** to **P2-D16**.

F7 (Voic): View a list of the 16 voices in the selected BANK. Press **MEMORY** to Switch Memory Locations and **BANK / SELECT** to view **banks A to D**.

F8 (Mult): View a list of the 16 available Multi’s in the selected Memory.

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BULK DUMP - To store your own TG77 Settings:

1. **UTILITY > MIDI > 03:BULK DUMP**
2. **Enter**
3. Select the type of BULK DUMP (Settings) to transmit and save. The following example is based on: **01. Voice & Multi (full TG77 Backup)**.
(The other choices are self-explanatory. See Manual p.177).
4. Press **F8** (Go)
5. Select your 1st TG77 Track in Logic's Arrange Page.
Check Port & Ch Setting: **Port 1. Channel 1.**
6. Press **Record** on the Logic Transport Bar
7. Press **Yes** on the TG77 to begin transmission.
8. A new region is written. You will see many **XXXX**.
9. The TG77 displays a message when transmission is complete and the region is no longer drawn in Logic.
10. Press **stop** in Logic
11. Give the Region a **meaningful name**. E.g. TG77 Bulk Dump (Date)
12. Select the region in Logic and inspect it using the Event List. You will see more detailed SYSEX Data if you activate the Extra info button (001011).
13. With the new region selected in Logic:
 - a. **File > Export > Selection as MIDI File...**
 - b. Choose a meaningful filename and location
 - c. Upon completion if you navigate to the file in the Finder you will see it appended with **.mid** for **MIDI File**.

Exporting the MIDI file is more useful to those who use other types of sequencer and Bulk Librarian Utilities.

Loading Bulk Data into the TG77:

Set as follows: **UTILITY > MIDI > 01;CHANNEL SET >BULK PROTECT... set to 'off'**.

PLAY the Bulk Dump Region in Logic to send it to the TG77. (MIDI out of PORT 2 to on the MIDI Interface into MIDI In on the TG77)