

TECH NOTE

Fastrack VS Verion 1.0 and later

YAMAHA 03D SERIAL AUDIO MIXER



The Fastrack VS hybrid editing system interfaces to the 03D Serial Audio Mixer with a 6-pin DIN to 9-pin RS-422 serial control cable and Yamaha 03D audio mixer serial protocol. The 03D must contain the optional "03D VEK for Video Editing" edit suite software in order to be controlled serially as a HOST by the Fastrack VS. The "Yamaha 03D Video Edit Suite Software Owner's Manual" contains essential information on the operation of this audio mixer.

Cable Pin Outs (6pin round DIN to 9pin rectangle serial connector):

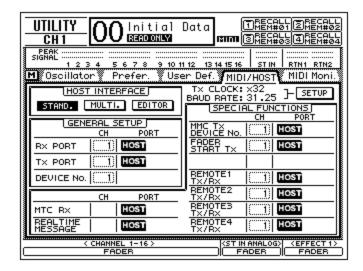
Pins 1 & 2 connected together on the 6pin plug

Pin 3 on the 6pin - connect to - pin 2 on the 9pin Pin 4 on the 6pin - connect to - pin 8 on the 9pin Pin 5 on the 6pin - connect to - pin 7 on the 9pin Pin 6 on the 6pin - connect to - pin 3 on the 9pin

Mixer Setup

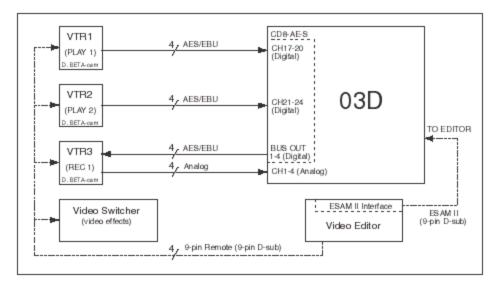
ESAM II protocol is an option to the 03D Mixer and needs to be installed at the Yamaha factory or customer installed using a serial terminal. Consult with your Yamaha representative.

- 1. Connect the serial control cable from a Fastrack VS "COM" port to the 6-pin "**TO HOST**" serial port on the rear of the 03D console.
- 2. At the 03D control panel "**SETUP**" section (top, left of the mixer), press the **[UTILITY]** button until the "**MIDI / HOST**" tab is selected.
- 3. At the "MIDI / HOST" tab, use the cursor buttons (under the PARAMETER wheel) to select, and then press the [ENTER] button, to accept the following:



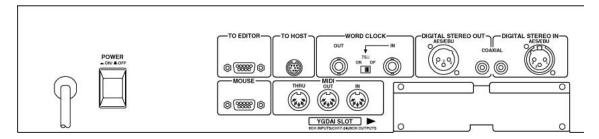
Note: One error in the image above - the Baud Rate needs to be set to 38.4

AES (digital audio) Inputs (YGADI Option required):

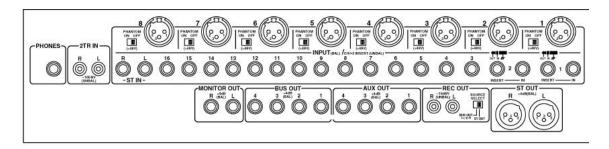


Optional AES YGADI inputs/outputs

Rear view of the 03D panel



Optional AES YGADI inputs/outputs (not shown) would be at lower right of above image.



Monitoring to amplifier and speakers is from the MONITOR OUT (1/4" TRS) connections Program Out is from the ST OUT (XLR) connections

Analog inputs 1-8 use balanced XLR connections

Analog inputs 9-16 use 1/4" TRS (tip/ring/sleeve) connections.

Monitor outs uses 1/4" TRS connections.

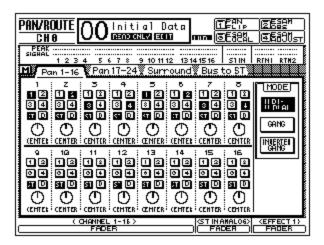
Bus outs use 1/4" TRS connections.

ST Out uses XLR and is the PROGRAM OUT to any/all record channels.

MONITORING

The 03D has a monitoring bus that can be remotely controlled as a preview bus; therefore, all audio previews should be done utilizing this preview switcher in the 03D.

Set each source's BUS Out and monitoring in the **[PAN/ROUTE]** section as below for four channels per source:



The BUS Outputs (1-4) are fed to the RECORD device for recording (or AES Out if the YGADI option is installed) and the MONITOR OUT connected to amplifier and speakers. The ST OUT is the signal that is monitored on the MONITOR OUT (when set in [**Bus to ST**] to OFF {not highlighted}), allowing preview monitoring to be controlled via the 03D mixer. The MONITOR OUT has a volume control knob for convenient speaker volume adjustment.

Fastrack VS Setup

Assign the following audio cross-points in the Source Assignment page **[SHIFT]+[ASGN]** in Fastrack VS for the 03D setup (**four channels** per device):

Trook	0.0	Name	Class	Device	Auto	Port	Pool	Crosspoints					
Track	OII	Name	Ciass	Device	AUIU	Purt		٧	A1	A2	А3	Α4	
1	×	PRD1	PROFILE	PDR		B021390:1	PROFILE	0	1	2	3	4	
2	×	PRD2	PROFILE	PDR		B021390:2	PROFILE	1	5	6	7	8	
3	×	PRD3	PROFILE	PDR		B021390:3	PROFILE	2	9	10	11	12	
4	×	PDR4(rec)	PROFILE	PDR		B021390:4	PROFILE	3	13	14	15	16	
5	×	DVR-20	VTR	DVR-20	×	СОМЗ	Таре	11					
6		Omneon1017	VDCP	4F6D		COM10	Omneon	13					
7		Omneon1036	VDCP	4F6D		COM6	Omneon	10					
8		Omneon	VDCP	4F6D		COM7	Omneon	12	1	2	3		
1.1			none			СОМЗ							
1.2			none										
1.3			none										
1.4			none										
1.5			none										
1.6			none										
1.7			none										
1.8			none										
2.1			none										
2.2			none										▼
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Note: Track 8 is not in use, hence the audio crosspoints of 1, 2, 3 are not conflicting

Assign the following audio cross-points in the Source Assignment page **[SHIFT]+[ASGN]** in Fastrack VS for the 03D setup (**two channels** per device):

Track	0.0	Name	Class	Device	Auto	Port	Pool	Crosspoints					
Track	OII	Name	Class	Device	AUIU	Port	Puul	٧	A1	A2	А3	A4	
1	×	PRD1	PROFILE	PDR		B021390:1	PROFILE	0	1	2			
2	×	PRD2	PROFILE	PDR		B021390:2	PROFILE	1	3	4			
3	×	PRD3	PROFILE	PDR		B021390:3	PROFILE	2	5	6			
4	×	PDR4(rec)	PROFILE	PDR		B021390:4	PROFILE	3	7	8			
5	×	DVR-20	VTR	DVR-20	×	COM3	Таре	11					
6		Omneon1017	VDCP	4F6D		COM10	Omneon	13					
7		Omneon1036	VDCP	4F6D		COM6	Omneon	10					
8		Omneon	VDCP	4F6D		COM7	Omneon	12	1	2	3		
1.1			none			СОМЗ							
1.2			none										
1.3			none										
1.4			none										
1.5			none										
1.6			none										
1.7			none										
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2.1			none										
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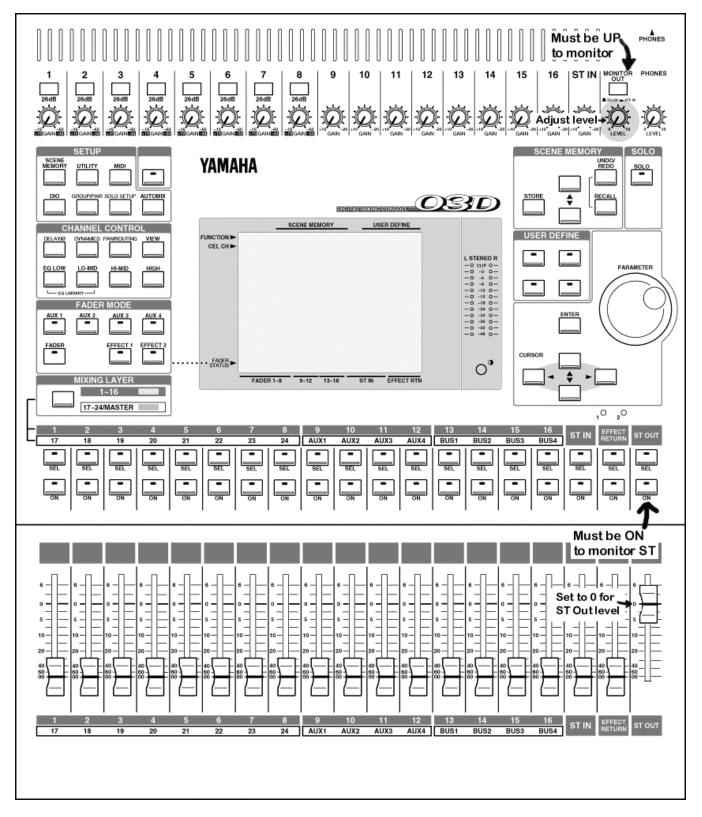
AUDIO MIXER SETTINGS

Shift INIT brings up the Settings window. Lines 25 through 28 are for Audio Mixer configuration.

The Values (third column) need to be set as below for Yamaha 03D control. Line 25 (Type) will consist of a drop down menu, chose YAMAHAHOST. Line 26 needs to be filled in manually (COM8 shown here, your port number may vary. Use the COM port number connected to the Yamaha HOST port). Line 28 (DeviceFile) also has a drop down menu, chose 03D.HST.

	Section	Name	Value	Comment
012	Shotlist	Params		Custom
013	Keyboard	Port	COM1	normally COM1
014	Keyboard	JogFactor	300	
015	Keyboard	VariFactor	300	
016	Keyboard	ShuttleFactor	300	
017	Keyboard	TableFileName	L2_KeyTableV1.ini	
018	Jogger	Port	COM2	normally COM2
019	VideoSwitcher	Туре	PROFILE	GVG and SONY depend on swi files in the swit
020	VideoSwitcher	Connection	B021390	COM10 is Port H
021	VideoSwitcher	Parity	ODD	
022	VideoSwitcher	IniFile		located in the Switcher directory
023	VideoSwitcher	PvwBus	0	
024	VideoSwitcher	PgmXpt	0	
025	AudioMixer	Туре	YAMAHAHOST	depend on swi files in the switcher directory
026	AudioMixer	Connection	COM8	
027	AudioMixer	Parity	NONE	
028	AudioMixer	Devicefile	03D.HST	located in the Mixer directory
029	Jobs	CurrentMovieName	INT1:/default/gw88	the default name for the complex movie
030	Jobs	TempClipsDirectory	INT1:/temp	the default directory for the temporary files on
1				▶

Yamaha 03D Audio Mixer Control Panel



Note: The 03D ST OUT is used for monitoring (VU meters active) and Program Output. Ensure the ST fader is up to 0 level, the ST ON lamp is illuminated, and the MONITOR OUT button is in the UP position.