

MPD and MPK Series - Transport Controls MIDI Details

The Akai MPK49 and MPD32 support four different transport modes: **MMC**, **MIDI**, **MMC/MIDI**, and **CTRL**. This guide will detail the functions of each of these transport modes.

MMC

Pressing **<<**, **>>**, **STOP**, or **REC** will transmit standard MIDI Machine Control (MMC) commands for each function.

Pressing **PLAY** will transmit the standard MIDI Machine Control (MMC) command, and will begin transmitting MIDI Beat clock (Timing Clock). Pressing **STOP**, **<<** or **>>** while playback is engaged will transmit the standard MMC Command for the function, and cause the MIDI Beat Clock messages to stop transmitting.

| MIDI Machine Control Messages: | | |
|--------------------------------|---------------------|-------------------|
| Button | SYSEX | HEX |
| << | 240 127 127 6 5 247 | F0 7F 7F 06 05 F7 |
| >> | 240 127 127 6 4 247 | F0 7F 7F 06 04 F7 |
| STOP | 240 127 127 6 1 247 | F0 7F 7F 06 01 F7 |
| PLAY | 240 127 127 6 2 247 | F0 7F 7F 06 02 F7 |
| REC | 240 127 127 6 6 247 | F0 7F 7F 06 06 F7 |

| MIDI Commands: | | | | | | |
|----------------|--------|--------|--------|---------|------|--------------|
| Button | Status | Data 1 | Data 1 | Channel | Note | Event |
| PLAY | F8 | -- | -- | -- | -- | Timing Clock |

MIDI

Pressing <<, >> will begin transmitting "Song Position Ptr" messages. The "Song Position Ptr" messages that are transmitted depend on the current song position. "Song Position Ptr" messages will begin with the current song position, and proceed forward indefinitely, or backward until song position "0". If << is pressed when the current song position is "0", no "Song Position Ptr" messages will be transmitted.

Pressing **STOP** during playback, fast-forward or rewind will transmit the "Stop" command. Pressing **STOP** while playback is stopped will transmit "Song Position Ptr 0". If **STOP** is pressed when the current song position is "0", no command will be transmitted.

Pressing **PLAY** will transmit the "Play" command, and will begin transmitting MIDI Beat clock (Timing Clock). If **PLAY** is pressed when the song position is not "0", the "Continue" command will be transmitted instead of the "Play" command. Pressing **REC** will transmit CC#119.

| MIDI Commands: | | | | | | |
|----------------|--------|----------|--------|---------|------|----------------------|
| Button | Status | Data 1 | Data 1 | Channel | Note | Event |
| << | F2 | (varies) | 00 | -- | --- | Song Position Ptr |
| >> | F2 | (varies) | 00 | -- | --- | Song Position Ptr |
| STOP | FC | -- | -- | -- | --- | Stop |
| | F2 | 00 | 00 | -- | --- | Song Position Ptr |
| PLAY | F2 | 00 | 00 | -- | --- | Song Position Ptr |
| | FA | -- | -- | -- | --- | Start |
| | FB | -- | -- | -- | --- | Continue |
| | F8 | -- | -- | -- | --- | Timing Clock |
| REC | B0 | 77 | 7F | 1 | --- | Control Change (119) |

| Continuous Controller Messages: | |
|---------------------------------|-----|
| Button | CC# |
| REC | 119 |

MMC/MIDI

Pressing << or >> will transmit the MMC command for the function, and will begin transmitting "Song Position Ptr" messages. The "Song Position Ptr" messages that are transmitted depend on the current song position. "Song Position Ptr" messages will begin with the current song position, and proceed forward indefinitely, or backward until song position "0". If << is pressed when the current song position is "0", no "Song Position Ptr" messages will be transmitted, and only the MMC command will be generated.

Pressing **STOP**, or **REC** will transmit standard MIDI Machine Control (MMC) commands for each function.

Pressing **PLAY** will transmit the MMC command for the function, as well as the MIDI "Play" command, and will begin transmitting MIDI Beat clock (Timing Clock). If **PLAY** is pressed when the song position is "0", "Song Position Ptr 0" will be transmitted before the "Play" command. If **PLAY** is pressed when the song position is not "0", the "Continue" command will be transmitted instead of the "Play" command.

Pressing **STOP**, <<, or >> while playback is engaged will transmit the standard MMC Command for the function, and cause the MIDI Beat Clock messages to stop transmitting.

| MIDI Machine Control Messages: | | |
|--------------------------------|---------------------|-------------------|
| Button | SYSEX | HEX |
| << | 240 127 127 6 5 247 | F0 7F 7F 06 05 F7 |
| >> | 240 127 127 6 4 247 | F0 7F 7F 06 04 F7 |
| STOP | 240 127 127 6 1 247 | F0 7F 7F 06 01 F7 |
| PLAY | 240 127 127 6 2 247 | F0 7F 7F 06 02 F7 |
| REC | 240 127 127 6 6 247 | F0 7F 7F 06 06 F7 |

| MIDI Commands: | | | | | | |
|----------------|--------|----------|--------|---------|------|----------------------|
| Button | Status | Data 1 | Data 1 | Channel | Note | Event |
| << | F2 | (varies) | 00 | -- | --- | Song Position Ptr |
| >> | F2 | (varies) | 00 | -- | --- | Song Position Ptr |
| STOP | FC | -- | -- | -- | --- | Stop |
| PLAY | F2 | 00 | 00 | -- | --- | Song Position Ptr |
| | FA | -- | -- | -- | --- | Start |
| | FB | -- | -- | -- | --- | Continue |
| | F8 | -- | -- | -- | --- | Timing Clock |
| REC | B0 | 77 | 7F | 1 | --- | Control Change (119) |

| Continuous Controller Messages: | |
|---------------------------------|-----|
| Button | CC# |
| REC | 119 |

CTRL

Pressing <<, >>, **STOP**, or **REC** will transmit a Continuous Controller Message.

Pressing **PLAY** will transmit a Continuous Controller Message and will begin transmitting MIDI Beat clock (Timing Clock). Pressing **STOP**, << or >> while playback is engaged will cause the MIDI Beat Clock messages to stop transmitting.

| Continuous Controller Messages: | |
|---------------------------------|-----|
| Button | CC# |
| << | 115 |
| >> | 116 |
| STOP | 117 |
| PLAY | 118 |
| REC | 119 |

| MIDI Commands: | | | | | | |
|----------------|--------|--------|--------|---------|------|--------------|
| Button | Status | Data 1 | Data 1 | Channel | Note | Event |
| PLAY | F8 | -- | -- | -- | -- | Timing Clock |