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THE "GPI OPTION" KIT

FOR

PACER DOCUMENTATION

GENERAL PURPOSE INTERFACE FOR PACER

The new GPI port upgrade for PACER provides the following facilities via a 15 way D connector on the back panel:

PIN	DESCRIPTION	ACTION	
1.	CHASE ENABLE/DIS.	command	toggle on/off
2.	RECORD	command	low to issue
3.	UNRECORD	command	low to issue
4.	RECORD ENABLE	command	toggle on/off
5.	TRIM +	command	low to issue
6.	TRIM -	command	low to issue
7.	AUTO OFFSET	command	low to issue
8.	GROUND		
9.	LOCKED	tally	low means locked
10.	PARKED	tally	low means parked
11.	RECORDING	tally	low means in record/rehearse
12.	RECORD ENABLED	tally	low means record enabled
13.	LIFTER MUTE	tally	low means lifters in
14.	CHASE TALLY	tally	low means chase enabled
15.	LOCAL/REMOTE	tally	low, we accept commands

All inputs are specified as being low to issue, those which are specified as being a toggle action have a corresponding tally to indicate their current state. The minimum duration of the low level should be 40 mS. All command inputs to PACER have pullup resistors of 2.2 Kohm to +5 volts. All tally outputs from PACER are provided by HCMOS logic at 0v and +5v levels.

RECORD COMMAND

A low going pulse on this input will cause a record command to be issued to the slave machine, provided that PACER has previously been enabled for record. If PACER has not been enabled for record then the command will not be issued to the machine BUT the recording tally will be made active (see below for detailed explanation of Recording Tally).

UNRECORD COMMAND

A low going pulse on this input will cause an unrecord command to be issued to the slave machine if PACER has previously issued a record command. If no record command has been issued then this command will be ignored. When this command is issued the Recording Tally will be cancelled.

RECORD ENABLE/DISABLE COMMAND

A low going pulse on this input will enable PACER for recording if it was previously disabled, or disable it if it was previously enabled. The enabled/disabled status will be reflected in the RECORD ENABLED tally.

TRIM+ COMMAND

A low going pulse on this input will add one frame to the current slave offset.

TRIM- COMMAND

A low going pulse on this input will subtract one frame from the current slave offset.

AUTO OFFSET COMMAND

A low going pulse on this input will cause the current difference between Master and Slave positions to be entered into the offset memory.

LOCKED TALLY

This tally will be low if the Master and Slave are playing with good timecode and the positional difference is less than 1/4 frame.

PARKED TALLY

This tally will be low if PACER is 'Chase Enabled' and the Slave is stopped within the allowed stopping window of the Master.

RECORDING TALLY

This signal is low from the point where the machine has or would have entered record to the point where the machine has or would have exited from record. This covers both the programmed drop in using PACERs IN and OUT memories and unprogrammed periods caused by the GP record and unrecord commands. The signal is active for record passes and rehearse passes and the actual record status should be qualified with the RECORD ENABLED tally.

RECORD ENABLED TALLY

This tally is low if PACER is enabled for recording, it is high otherwise.

LIFTER MUTE TALLY

This tally is low if PACER disables the slave machines tape lifters during winding. It may be used to mute audio monitoring while PACER is locating or chasing the Slave machine.

CHASE TALLY

This tally is low if PACER is 'Chase Enabled', it is high otherwise.

LOCAL/REMOTE TALLY

Under certain circumstances PACER may isolate itself from the activity of any external controlling equipment, this tally is to inform the external equipment whether PACER may be controlled. When this output is low we will accept the external commands, when this output is high we will ignore them. At all times the tally outputs will be active.