



M305

Tremolo

This return of the tremolo effect to the MXR® line combines a full historical range of masterfully tuned tremolo styles with a host of features to satisfy the performance needs of today's discerning players.

External Controls



- 1 CTR output jack allows use of tap tempo switch, expression pedal, or stereo output function
- 2 SPEED knob adjusts rate of effect GAIN knob sets output level and selects tremolo style (indicated by flashing red or green LED)
- 3 GAIN knob sets output level and selects tremolo style (indicated by flashing red or green LED)
- 4 DEPTH knob sets intensity of effect
- 5 FOOTSWITCH toggles effect on/bypass (blue LED indicates on)
- 6 CTR slide switch toggles CTR output between tap tempo/expression and audio output functions

Basic Operation

1. Run a cable from your guitar to the M305's INPUT jack and run another cable from the M305's OUTPUT jack to your amplifier.
2. Start with all knobs at 12 o'clock. Turn the effect on by depressing the footswitch.
3. Push the GAIN knob to cycle through tremolo styles, indicated by red or green LEDs in the LED column. See TREMOLO STYLES section for a description of each style.
4. Rotate the GAIN knob clockwise to increase overall output of effect or counterclockwise to decrease it.
5. Rotate the SPEED knob clockwise to increase the rate of the tremolo effect or counterclockwise to decrease it.
6. Rotate the DEPTH knob clockwise to increase the intensity of the tremolo effect or counterclockwise to decrease it.

Tremolo Styles

MXR: Classic M159 sound. Indicated by green LED.

BIAS: Vintage bias waveform; emulates lush compression of browned out tubes. Indicated by red LED.

REVO: Reverse optical waveform; produces more exaggerated peaks and valleys. Indicated by green LED.

OPTO: Optical waveform; emulates smooth pulsating effect generated by vintage amplifiers. Indicated by red LED.

SQR: Square waveform for choppy, pronounced effects. Indicated by green LED.

HARM: Vintage harmonic tremolo for shimmering frequency modulation. Indicated by red LED.

Power

The Tremolo requires 9 volts (180mA) and can be powered by the Dunlop ECB003 9-volt adapter or the DC Brick™, Iso-Brick™, and Mini Iso-Brick™ power supplies. This pedal cannot be powered by a battery.

Advanced Operation

USING A TAP TEMPO SWITCH TO CONTROL TREMOLO SPEED

Set CTR slide switch to its left position, and connect an MXR Tap Tempo Switch to the M305's CTR jack using a standard instrument cable. While the M305 is on, tap your desired rhythm onto the Tap Tempo Switch.

USING AN EXPRESSION PEDAL TO BLEND BETWEEN TWO SETTING CONFIGURATIONS

Set CTR slide switch to its left position, and connect an expression pedal such as the DVP3 Volume (X)TM Pedal to the M305's CTR jack using a TRS cable. Move the toe of the expression pedal all the way forward and adjust the GAIN, SPEED, and DEPTH knobs to your desired settings. Next, move the heel of the expression pedal all the way backward and adjust the three knobs to different settings. You can now use the expression pedal to blend from one setting configuration to the other.

STEREO OUTPUT MODE

Stereo Mode pans the tremolo effect from one audio output to another. To operate the M305 in Stereo Output Mode, run a TRS splitter cable from the M305's output jack to your desired output sources. *Note: When bypassed, the TRS splitter cable's output RING connection will only receive your guitar signal if the M305 is in Buffered Bypass Mode (see relevant section).

USING THE CTR JACK AS A STEREO OUTPUT

Set CTR switch to its right position, and run an instrument cable from the M305's CTR jack to a separate output source. The RING connection on the OUT jack will be muted.

STEREO INPUT MODE

For stereo inputs, plug a TRS cable into the IN jack and set the internal STEREO/MONO switch to its LEFT position. For mono inputs, set the internal STEREO/MONO switch to the RIGHT position (factory default). This will route the mono signal to both stereo outputs.



STEREO | MONO

Advanced Operation (cont.)

ENVELOPE MODE

While Envelope Mode is engaged, the SPEED and DEPTH functions are determined by the intensity of your own playing. To enter Envelope Mode, push and hold the GAIN knob for 3 seconds. The blue on/off status LED will now flash according to the tremolo effect speed, and the red or green tremolo style LED will be solid.

To set the maximum rate and sensitivity of the tremolo effect, press and hold the GAIN knob. Use the SPEED knob to adjust the maximum effect rate, indicated by the green LEDs flashing at the selected rate. Use the DEPTH knob to adjust the effect sensitivity, indicated by the number of illuminated red LEDs from zero (low) to three (high). Release the GAIN knob to save your chosen settings.

Note: The M305 will function in Envelope Mode with your chosen maximum rate and sensitivity settings even after turning the pedal off and on again. To exit Envelope Mode, push and hold the GAIN knob again for 3 seconds. Both on/off status and tremolo style LEDs will flash according to SPEED setting to indicate default operation.

BUFFERED BYPASS MODE

By default, the M305 uses a true bypass relay, shutting off the effect and hardwire bypassing the tip connection signal as soon as you turn the pedal off. To allow the M305 to pass your signal through to a TRS connection when bypassed, you must set it to Buffered Bypass Mode.

To enter Buffered Bypass Mode, rotate all knobs fully counterclockwise, and press and hold the GAIN knob for 5 seconds. All three red LEDs will flash to indicate that Buffered Bypass Mode is engaged. To switch back to true bypass, repeat the same process. All three green LEDs will flash to confirm.

Specifications

Input Impedance	600 kΩ
Output Impedance	< 140 Ω
Maximum Input Level	+2 dBV
Maximum Output Level	+4 dBV
Speed Control	0.7 Hz to 15 Hz
Depth Control	0 to 100%
*Noise Floor	-100 dBV
Current Draw	190 mA
Power Supply	9 volts DC

Specifications at 1 kHz *A-Weighted