

# LONDON FOG

T A P E   D E L A Y



# TABLE OF CONTENTS

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- 2 LONDON FOG TAPE DELAY OVERVIEW
- 2 POWER AND MIDI JACKS
- 3 INPUTS AND OUTPUTS
- 3 LEDS
- 4 CONTROLS
  - 4 PROGRAMS
  - 5 MIX & CONTROL KNOBS
  - 6 REPEATS, PLAYBACK SPEED, TIME, PLAYBACK DIRECTION
- 7 FOOTSWITCHES
  - 7 BYPASS/DIV
  - 8 TAP/BEND
  - 9 PRESETS
- 10 TRAILS
- 11 SETTINGS
- 12 MIDI
  - 12 MIDI CHANNEL
  - 13 MIDI PROGRAM CHANGE MESSAGES
  - 14 MIDI CONTROL CHANGE MESSAGES

# LONDON FOG TAPE DELAY OVERVIEW

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THE LONDON FOG IS A DIGITAL TAPE STYLE DELAY WITH FOUR UNIQUE TYPES OF TAPE MACHINES IN ONE COMPACT PEDAL. CHOOSE FROM NEW, OLD, VINTAGE, OR DUAL TAPE PROGRAMS. OTHER FEATURES INCLUDE:

- PLAY IN FORWARD, REVERSE, OR BOTH AT THE SAME TIME
- TRAIL SPILLOVER (BETWEEN PRESETS AND DELAY PROGRAMS)
- UNIQUE PLAYBACK SPEED ADJUST DEGRADATION OF TAPE
- 3 SAVABLE PRESETS (20 VIA MIDI)
- FULL MIDI CONTROL FOR KNOBS, SWITCHES, PRESETS ETC.
- TRUE STEREO INPUTS AND OUTPUTS

## POWER AND MIDI JACKS

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THE POWER REQUIRED: 9VDC NEGATIVE CENTER ~325MA

THE MIDI JACK IS 3.5MM TYPE "A" TRS MIDI INPUT

POWER JACK

MIDI INPUT



3.5MM MIDI

5 PIN MIDI



A 3.5MM TYPE "A" MIDI ADAPTER CAN BE USED TO CONVERT A 5 PIN MIDI OUTPUT. THE CONNECTIONS ARE AS FOLLOWS:

TRS TIP TO MIDI PIN 5  
TRS RING TO MIDI PIN 4  
TRS SLEEVE TO MIDI PIN 2

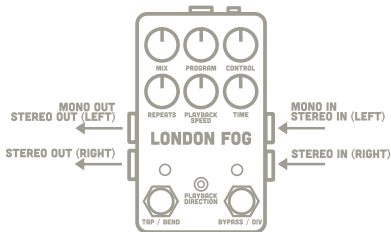
# INPUTS AND OUTPUTS

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THE LONDON FOG CAN BE CONNECTED IN THREE WAYS:

- MONO IN, MONO OUT
- MONO IN, STEREO OUT
- STEREO IN, STEREO OUT

ALL 4 JACKS ARE TS AND ONLY ACCEPT MONO CABLES



THE LONDON FOG ROUTES THE INPUTS AND OUTPUTS AUTOMATICALLY SO YOU DON'T HAVE TO THINK ABOUT IT.

## LEDS

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### TAP LED

WILL FLASH WHITE TO SHOW TAP TEMPO.

RED, GREEN, BLUE = PRESETS 1, 2, 3

PURPLE = CHANGE IN PRESET (UNSAVED)

AQUA = MIDI PRESET ON (4-20)

### BYPASS LED

SHOWS IF THE PEDAL IS ON/OFF.

THE COLOR IS THE TAP DIVISION (GREEN, YELLOW, OR RED)

# CONTROLS

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## PROGRAM

THIS KNOB DETERMINES WHICH TAPE MACHINE TYPE WILL BE USED. THE TAPE PROGRAMS ARE:

### NEW TAPE

CLEAN, UN-AGED TAPE WITH NO TONE LOSS.

### OLD TAPE

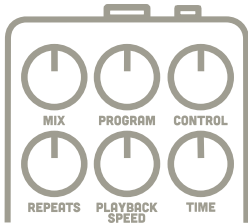
TYPICAL TAPE EQ (HIGH & LOW FREQ. LOSS) WITH ADDED SATURATION, AND WOW & FLUTTER

### VINTAGE TAPE

HIGH FREQ. LOSS (PER REPEAT) WITH CONSISTENT TAPE SATURATION AND WOW (WITH CONTROL)

### DUAL TAPE

HIGH FREQ. LOSS WITH NO SATURATION AND CONSISTENT WOW ON THE TAPE. DUAL TAPE USES TWO PLACEMENTS WITH DIFFERENT SUBDIVISIONS ON THE TAPE HEAD TO CREATE UNIQUE SOUNDS. IT CAN BE EITHER A SUMMED MONO DELAY, OR A TRUE STEREO DELAY BEASED OFF THE POSITION OF THE CONTROL KNOB. MORE DETAILS IN THE CONTROL KNOB SECTION.



## MIX

SETS THE WET/DRY MIX AMOUNT. TURN LEFT TO HAVE MORE DRY SIGNAL. TURN RIGHT TO INTRODUCE WET TAPE DELAY SIGNAL.

## CONTROL

ADJUSTS A UNIQUE FEATURE SPECIFIC TO EACH PROGRAM.

NEW – WOW (MODULATION) AMOUNT

OLD – WOW & FLUTTER AMOUNT, AND SATURATION AMOUNT

VINTAGE – WOW (MODULATION) AMOUNT

DUAL – SUBDIVISIONS OF TIME FOR THE PLACEMENT OF THE TAPE PLAYBACK HEAD. EACH MODE WILL BE TWO SUBDIVISIONS, AND ONE OF THE SUBDIVISIONS WILL ALWAYS BE 1/4 NOTES.

FOR EXAMPLE.

SET TO MODE 7 FOR DOTTED 1/8 NOTES AND 1/4 NOTES IN STEREO.

BUT SET TO MODE 3 FOR A SUMMED MONO OUTPUT OF THE SAME SUBDIVISIONS (OUTPUT IS THE SAME ON L & R)

L ● ● ● ●

STEREO

R ● ● ● ●

L & R ● ●● ● ●● ●

MONO

DUAL TAPE  
SUBDIVISION  
MODES:



MONO

- 1 – TRIPLETS
- 2 – 1/8 NOTES
- 3 – DOTTED 1/8
- 4 – REGULAR 1/4

STEREO

- 5 – TRIPLETS
- 6 – 1/8 NOTES
- 7 – DOTTED 1/8
- 8 – PING PONG

## REPEATS

SETS THE WET/DRY MIX AMOUNT. TURN LEFT TO HAVE MORE DRY SIGNAL. TURN RIGHT TO INTRODUCE WET TAPE DELAY SIGNAL. SETS THE AMOUNT OF TIMES THE TAPE DELAY WILL REPEAT. MINIMUM WILL BE JUST A SINGLE REPEAT. MAX WILL BE INFINITE.

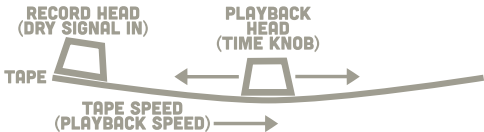
## PLAYBACK SPEED & TIME

PLAYBACK SPEED (PBS) IS THE SPEED AT WHICH THE TAPE MACHINE IS RUNNING. IT CONTROLS THE DEGRADATION OF THE TAPE AND THE RATE OF WOW & FLUTTER. IT ALSO CONTROLS THE RANGE OF TIME.

TIME CONTROLS HOW LONG THE DELAY IS. YOU CAN THINK OF TIME AS THE PLACEMENT OF THE PLAYBACK HEAD ON THE TAPE MACHINE.

LONGER PLAYBACK SPEED ALSO INTRODUCES AGE NOISE AND HISS ON THE TAPE, AS WELL AS TAPE DEGRADATION.

(EX. 0.5X PBS GIVES MAX 2S FOR TIME AND 1X PBS GIVES MAX 1S FOR TIME)



## PLAYBACK DIRECTION

THE PLAYBACK DIRECTION SWITCH ALLOWS THE DELAY TO BE PLAYED IN FORWARD, REVERSE, OR BOTH FORWARD AND REVERSE AT THE SAME TIME, IN PARALLEL.

REVERSE



FORWARD & REVERSE



FORWARD



# FOOTSWITCHES

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## **BYPASS / DIV**

THE BYPASS FOOTSWITCH BYPASSES THE TAPE DELAY EFFECT. SIMPLY SHORT PRESS THE SWITCH TO TURN ON OR OFF THE PEDAL.

## **DIV STANDS FOR SUBDIVISION**

THE LED ABOVE THE BYPASS WILL SHOW WHICH SUBDIVISION THE DELAY WILL BE ON.

LONG PRESS THE BYPASS/DIV FOOTSWITCH (~0.5S) TO CHANGE THE SUBDIVISION.

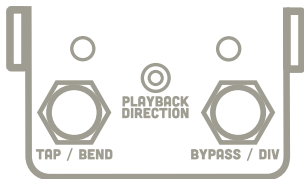
**GREEN = 1/4 NOTES**

**YELLOW = DOTTED 1/8 NOTES**

**RED = 1/8 NOTES**

THIS WILL CHANGE HOW THE TAP TEMPO WORKS. IF ON GREEN, THE DELAY WILL BE WHAT YOU TAPPED. IF ON YELLOW IT WILL BE 0.75 OF WHAT YOU TAPPED. IF ON RED WILL BE HALF (0.5) OF WHAT YOU TAPPED.

**NOTE: THIS AFFECTS HOW THE DUAL DELAY WORKS – SO IF YOU WANT PROPER 1/4 NOTES, USE GREEN SUBDIVISION**





## **TAP / BEND**

**THIS FOOTSWITCH ALLOWS ACCURATE TAP TEMPO FOR THE DELAY. SIMPLY TAP 2 OR MORE TIMES TO HAVE YOUR DELAY RUN AT THE SPEED OF THE TEMPO THAT WAS TAPPED. THE TEMPO IS AFFECTED BY THE SUBDIVISION.**

### **BEND MODE**

**BEND MODE IS STARTED BY HOLDING DOWN THE TAP/BEND FOOTSWITCH FOR 0.3 SECONDS OR MORE.**



**LONG PRESS  
FOR BEND**

**TAP / BEND**

**THE BEND MODE AUTOMATICALLY MOVES THE PLAYBACK SPEED TO A SET SPEED AT A SET TIME.**

**FOR EXAMPLE, BEND CAN CHANGE TO 0.5X, AND IT CAN CHANGE IN 1.2 SECONDS.**

**THIS MODE CREATES A PITCH CHANGE, OR A BEND, IN YOUR DELAY SIGNAL.**

**SIMPLY LET GO OF THE LONG PRESS TO BEND BACK TO YOUR NORMAL PLAYBACK SPEED (THAT IS SHOWN ON YOUR KNOB, OR IN YOUR PRESET).**

### **CHANGING BEND SETTINGS**

**TO CHANGE BEND SETTINGS, HOLD THE BYPASS SWITCH FOR 3 SECONDS TO ENTER SETTINGS MODE. THE LEDS WILL TURN YELLOW. KEEP HOLDING THE SWITCH WHILE MAKING CHANGES.**

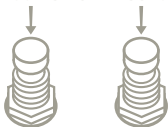
**TURN THE PLAYBACK SPEED KNOB TO CHANGE WHERE THE BEND MODE WILL BEND TO.**

**TURN THE TIME KNOB TO CHANGE HOW LONG THE BEND WILL TAKE.**

**MORE INFO IN SETTINGS SECTION.**

## PRESETS

**PRESETS ARE CHANGED, TURNED ON/OFF, AND SAVED ALL BY PRESSING BOTH FOOTSWITCHES AT THE SAME TIME.**



**NOTE: TAP LED SHOWS IF PRESET IS ON OR OFF.**

**BELOW IS HOW TO USE PRESETS:**

**CHANGE PRESET:  
SHORT PRESS BOTH FOOTSWITCHES**

**TURN ON/OFF PRESET:  
LONG PRESS BOTH FOOTSWITCHES  
(FOR AT LEAST 0.5 SECONDS)**

### SAVE A PRESET:

- 1. HOLD BOTH FOOTSWITCHES FOR 3 SECONDS TO ENTER "SAVE MODE" (TAP LED WILL STOP BLINKING AND TURN WHITE)**
- 2. NOW SHORT PRESS BOTH FOOTSWITCHES TO CHOOSE WHICH PRESET TO SAVE TO. THE TAP LED WILL SHOW WHICH PRESET YOU WILL SAVE TO (RED, GREEN OR BLUE ON THE TAP LED).**
- 3. FINALLY, HOLD BOTH FOOTSWITCHES FOR 3 SECONDS AGAIN TO CONFIRM YOUR NEW SAVE.**

**NOTE: THE PRESET WILL SAVE YOUR CURRENT KNOB POSITIONS. IF YOU ARE ON A PRESET WHEN YOU ENTER SAVE MODE, YOU WILL SAVE YOUR PRESET SETTINGS ONTO YOUR NEW PRESET, PLUS ANY KNOB CHANGES YOU MADE WHILE ON THAT PRESET.**

### SAVE A MIDI PRESET:

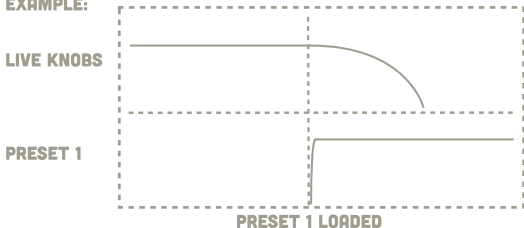
- 1. HOLD BOTH FOOTSWITCHES FOR 3 SECONDS TO ENTER "SAVE MODE" (TAP LED WILL STOP BLINKING AND TURN WHITE)**
- 2. NOW SIMPLY SEND A MIDI PROGRAM CHANGE (PC) MESSAGE OF THE PRESET YOU WANT TO SAVE TO (4-20)**
- 3. A LIST OF ALL MIDI INFORMATION CAN BE FOUND IN THE MIDI SECTION.**

# TRAILS

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THE LONDON FOG IS CAPABLE OF HAVING YOUR PREVIOUS PRESET OR PROGRAM FADE OFF NATURALLY WHEN A DIFFERENT PRESET OR PROGRAM IS LOADED.

EXAMPLE:



IN THE EXAMPLE ABOVE, THE PEDAL WAS TURNED ON WITH NO PRESET ON. THEN, PRESET 1 WAS TURNED ON.

YOU CAN SEE THE FIRST DELAY FADED OFF NATURALLY WHEN PRESET 1 WAS ACTIVATED. THESE TRAILS OCCUR WHENEVER A PRESET IS LOADED, WHEN THE PROGRAM IS CHANGED, OR WHEN THE PEDAL IS TURNED OFF (AND IN DSP BYPASS MODE).

CHANGING MANY PRESETS OR PROGRAMS TOO QUICKLY WILL RESULT IN TRAILS BEING CUT OFF (THIS IS ALSO A GOOD WAY OF GETTING TRAILS TO END IF YOU HAD A VERY LONG TRAIL).

## CHANGING TRAILS MODE

IF YOU DO NOT WANT TRAILS BETWEEN PROGRAMS AND PRESETS, TURN THEM OFF BY CHANGING TRAILS MODE IN SETTINGS.

MORE INFORMATION IN SETTINGS SECTION.

# SETTINGS



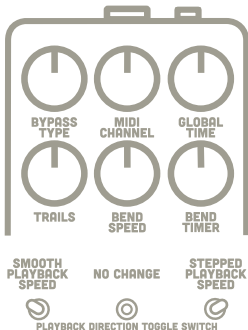
**TO EDIT SETTINGS:**

**HOLD BYPASS FOOTSWITCH FOR 3 SECONDS (BOTH LEDS WILL TURN YELLOW)**

**KEEP HOLDING BYPASS WHILE YOU MAKE YOUR CHANGES**

**CHANGE THE KNOBS AND TOGGLE SWITCH TO CHANGE SETTINGS**

**LET GO OF THE BYPASS FOOTSWITCH ONCE YOU ARE DONE CHANGING SETTINGS (THE LEDS WILL GO BACK TO NORMAL)**



**SMOOTH OR STEPPED PLAYBACK SPEED (PLAYBACK DIRECTION SWITCH)**  
THE PLAYBACK SPEED KNOB CAN EITHER BE SMOOTH, OR CHANGE IN STEPS THAT ARE SHOWN AROUND THE KNOB.

**BYPASS TYPE (MIX KNOB)**

SETS WHETHER THE BYPASS IS DSP BYPASS, OR TRUE BYPASS. TURN ALL THE WAY LEFT FOR DSP BYPASS (WITH TRAILS) AND TURN ALL THE WAY RIGHT FOR TRUE BYPASS (NO TRAILS).

**MIDI CHANNEL (PROGRAM KNOB)**

THE MIDI CHANNEL WILL DISPLAY ON THE PROGRAM LEDS. TURN THE PROGRAM KNOB TO CHANGE THE MIDI CHANNEL. MORE INFO IN MIDI SECTION.

**GLOBAL TIME (CONTROL KNOB)**

TIME CAN EITHER BE SAVED PER PRESET, OR TIME CAN BE GLOBAL AND REMAIN THE SAME NO MATTER OF PRESET. TURN LEFT FOR NO GLOBAL TIME, AND TURN ALL THE WAY RIGHT FOR GLOBAL TIME.

**TRAILS (REPEATS KNOB)**

CHOOSE WHETHER THERE WILL BE TRAILS BETWEEN PRESETS/PROGRAMS, OR IF IT CUTS OFF THE TRAILS BETWEEN CHANGES. TURN ALL THE WAY LEFT FOR TRAILS, AND TURN RIGHT FOR NO TRAILS.

**BEND SPEED (PLAYBACK SPEED KNOB)**

THIS IS THE POSITION THAT THE PLAYBACK SPEED WILL AUTOMATICALLY MOVE TO WHEN THE BEND FOOTSWITCH IS PRESSED.

**BEND TIMER (TIME KNOB)**

THIS IS HOW LONG IT WILL TAKE FOR THE BEND MODE TO HAPPEN. TURN LEFT FOR SHORT TIME, AND TURN RIGHT FOR LONG TIME.

# MIDI

## MIDI CHANNEL

THE DEFAULT MIDI CHANNEL IS CHANNEL 1 (0x00) BUT IT CAN BE CHANGED TO ANY CHANNEL FROM 1 TO 16.

TO CHANGE THE CHANNEL, ENTER THE SETTINGS MENU. THIS WILL LIGHT UP THE PROGRAM LEDS WITH YOUR MIDI CHANNEL NUMBER. TURN PROGRAM KNOB TO CHANGE CHANNEL. THE CHART BELOW SHOWS THE MIDI CHANNELS. LIT LED IS SHOWN UNFILLED.



TO SAVE YOUR MIDI CHANNEL, JUST LET GO OF THE BYPASS SWITCH TO EXIT SETTINGS, AND IT WILL AUTOMATICALLY SAVE.

## MIDI PROGRAM CHANGE MESSAGES

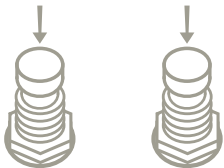
MIDI CAN BE USED TO RECALL SAVED PRESETS FROM 1-20, SET THE PEDAL TO "LIVE KNOBS" MODE, AND TO TURN THE PEDAL ON OR OFF. THE PROGRAM CHANGE (PC) LIST IS BELOW.

PC 0	-----	LIVE KNOBS MODE (PRESET OFF)
PC 1	-----	PRESET 1 (RED)
PC 2	-----	PRESET 2 (GREEN)
PC 3	-----	PRESET 3 (BLUE)
PC 4-20	-----	PRESETS 4-20 (LIGHT BLUE)

PRESETS 4-20 CAN ONLY BE ACCESSED USING MIDI. RECALL THESE MIDI PRESETS BY SENDING THE PC NUMBER. THE LED WILL BE LIGHT BLUE WHEN A MIDI PRESET IS ON. IF NO PRESET HAS BEEN SAVED IN A MIDI PRESET, THEN THE LONDON FOG WILL NOT LOAD ANYTHING.

## SAVING MIDI PRESETS

THE LONDON FOG CAN STORE UP TO 20 PRESETS. PRESETS 4 TO 20 ARE ONLY ACCESSIBLE THROUGH MIDI.



TO SAVE A MIDI PRESET, SIMPLY ENTER SAVE MODE (BY PRESSING AND HOLDING BOTH FOOTSWITCHES FOR 3 SECONDS UNTIL THE TAP LED STOPS BLINKING).

THEN, JUST SEND A MIDI PC MESSAGE FROM 4-20 TO SAVE YOUR PRESET.

## MIDI CONTROL CHANGE MESSAGES

MIDI CAN ALSO BE USED TO CHANGE KNOBS, SETTINGS, SWITCHES AND TEMPO CAN BE CONTROLLED WITH MIDI CLOCK. BELOW IS A LIST OF ALL CONTROL CHANGE (CC) MESSAGES:

MIDI CC#:	PARAMETER:	VALUE
0	ON / OFF	0=OFF, >0=ON
1	MIX	0 - 127
2	PROGRAM	1=NEW, 2=OLD, 3=VINTAGE, 4=DUAL
3	CONTROL	0 - 127
4	REPEATS	0 - 127
5	PLAYBACK SPEED	0 - 127
6	TIME	0 - 127
7	PLAYBACK DIRECTION	0=FORWARD, 1=REVERSE, 2=BOTH
8	BYPASS TYPE	0=DSP BYPASS, >0=TRUE BYPASS
9	GLOBAL TIME	0=NOT GLOBAL, >0=GLOBAL
10	TRAILS	0=TRAILS, >0=NO TRAILS
11	BEND SPEED	0 - 127
12	BEND TIMER	0 - 127
13	PLAYBACK SPEED MODE	0=SMOOTH, >0=STEPPED
14	MIDI CLOCK LISTENING	0=DON'T LISTEN, >0=LISTEN
15	TAP DIVISION	0=1/4, 1=DOTTED 1/8, 2=1/8 NOTES

SOME DEVICES DO NOT SEND START AND STOP MESSAGES FOR MIDI CLOCK, SO THE LONDON FOG WILL START TO SYNC TO MIDI TIMING CLOCK MESSAGES (0XF8) WITHOUT A START OR STOP.



**VISIT US AT [COFFEESHOPPEDALS.COM](http://COFFEESHOPPEDALS.COM) FOR MORE  
INFO AND VIDEOS**

**IF YOU HAVE ANY QUESTIONS, YOU CAN REACH US  
AT [COFFEESHOPPEDALS@OUTLOOK.COM](mailto:COFFEESHOPPEDALS@OUTLOOK.COM)**

