

DT300 PRELIMINARY MANUAL

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V1.0 : Initial document (20-05-2015)

Thank you for purchasing the DTronics DT300.
This product has been carefully engineered and thoroughly tested to guarantee optimum performance and user satisfaction for many years to come.
Please read these installation instructions carefully!

1. OPERATION

Switch on the a JUNO, then the DT-300.

The LED in the MANUAL button will lite up, the amount of flashes show you the current midi channel (1 flash is chaNnel1, 2 = 3 etc..)

Depending on the stored setting, the LEDS of the faders will be on or off.

Depending on the control mode, the MANUAL button LED will be on or off (OFF = sysex mode, ON = midi CC mode)

To control the a JUNO with a MIDI device, connect the MIDI OUT of the MIDI device to the MIDI IN Connector on the Programmer. The dt-300's MIDI messages for tone color editing and the messages fed into the MIDI IN are mixed and sent through the MIDI PROGRAMMER OUT.

2. Tone Edit

This Tone Edit function is useful for slightly modifying the tone color.

Select the tone color to be modified on the JUNO.

Using the knobs on the Programmer, edit the tone color.

If you move a desired knob even slightly, its setting position of that tone color will be deleted and ready to be manually controlled.

* This Editing function does not automatically rewrite the existing tone color, therefore, if calling the same tone color later, the unchanged original tone color will be heard. To retain the edited tone color, take an appropriate writing procedure on the JUNO.

* While editing a parameter with the DT-300, even if the current set positions of the knobs or switches are exactly what you desire, change the position once then return it. Otherwise, the parameter value might not be affected by the DT-300, thereby remain unchanged.

3. Creating a new Tone Color

This function is useful for synthesizing a tone color from scratfch.

Push the Manual Button

Now, the whole panel setting of the DT-300 decides the tone color. That is, existing tone color in memory has nothing to do with your sound synthesis. You can make a complete new tone color from scratch.

*The tone color you have synthesized will not be retained unless a proper writing procedure is taken on the JUNO. The writing operation, however, inevitably erases a tone color.

4. How to change the settings:

- 1) Turn OFF the DT300
- 2) Set the midi channel:

Midi channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DCO SUB OSCILLATOR level knob	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3
DCO NOISE level knob setting:	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3

- 3) CHORUS FADER ON/OFF = Fader LEDS ON/OFF
- 4) CHORUS RATE KNOB to MIN = LED timer off , CHORUS RATE KNOB to MAX = LED timer on (5 min)
- 5) DCO PWM RATE KNOB to MAX = midi CC mode, DCO PWM RATE KNOB to MIN = midi sysex mode
- 6) HPF LEVEL set to 0 (*)
- 7) press and hold the MANUAL BUTTON and turn on the DT300.
- 8) Release the manual button

How to upload new settings over midi:

- 1) Turn OFF the DT300
- 2) HPF LEVEL set to 3 (*)
- 3) press and hold the MANUAL BUTTON and turn on the DT300.
- 4) Release the manual button
- 5) Now upload the new data with midi sysex (*)
- 6) Turn off the DT300

*) The position of the HPF knob will switch between settings and midi sysex control.
info about the midi sysex data can be found below.

5. Midi sysex data:

Midi sysex data can only be received when the unit is in sysex receive mode (See: How to upload new settings over midi)

Only 1 midi string can be send at a time, if you want tos end more strings, turn off the DT300 and repeat the programming steps.

Changing the 4 position switch values:

F0 00 21 1e 10 01 (4bytes) f7

The default 4 byte string is:

0,65,107,127 (Decimal *)

Changing the 6 position switch values:

F0 00 21 1e 10 02 (6bytes) f7

The default 6 byte string is:

0,39,65,90,115,127 (Decimal *)

Changing the 12 position switch values (bender range only):

F0 00 21 1e 10 03 (12bytes) f7

The default 12 byte string is:

17,28,38,49,59,70,81,91,102,112,123,127 (Decimal *)

Changing MIDICC settings:

F0 00 21 1e 10 00 (36bytes) f7

The default 36 byte string is:

36,37,38,39,40,41,42,43,44,45,84,47,48,49,35,26,50,56,54,52,
51,53,57,58,24,27,83,79,80,81,76,77,78,82,85,46 (Decimal *)

Byte nr – description (defaults shown in decimal *)

01	DCO Env. Mode (default = 36)
02	VCF Env. Mode (default = 37)
03	VCA Env. Mode (default = 38)
04	DCO Wave Pulse (default = 39)
05	DCO Wave Saw (default = 40)
06	DCO Wave Sub (default = 41)
07	DCO Range (default = 42)
08	DCO Sub Level (default = 43)
09	DCO Noise (default = 44)
10	HPF Cutoff (default = 45)
11	Chorus Switch (default = 84)
12	DCO LFO Mod. (default = 47)
13	DCO ENV Mod. (default = 48)
14	DCO After Mod. (default = 49)
15	DCO PWM Depth (default = 35)
16	DCO PWM Rate (default = 26)
17	VCF Cutoff (default = 50)
18	VCF Resonance (default = 56)
19	VCF LFO Mod. (default = 54)
20	VCF ENV Mod. (default = 52)
21	VCF Key Follow (default = 51)
22	VCF Aftertouch (default = 53)
23	VCA Level (default = 57)
24	VCA Aftertouch (default = 58)
25	LFO Rate (default = 24)
26	LFO Delay (default = 27)
27	ENV T1 (default = 83)
28	ENV L1 (default = 79)
29	ENV T2 (default = 80)
30	ENV L2 (default = 81)
31	ENV T3 (default = 76)
32	ENV L3 (default = 77)
33	ENV T4 (default = 78)
34	ENV Key Follow (default = 82)
35	Chorus Rate (default = 85)
36	Bender Range (default = 46)

*) Bytes should be converted to HEX in order to use them in a sysex string.

POWER

- When setting up the DT-300 with the a JUNO, turn both of them off.
- This unit might not work properly if turned on immediately after turned off. If this happens, simply turn it off and turn it on again a few seconds later.
- Be sure to use the supplied AC Adaptor. Using any other adaptor may cause trouble.

LOCATION

- Avoid using the a JUNO in excessive heat or humidity or where it may be affected by direct sunlight or dust.

CLEANING

- Clean the unit with only soft cloth and mild detergent.
- Do not use solvents such as THINNER.

Consumption 100 mA (DC 9V , + on center pin)

Weight X.XX Kg (without the Adaptor)

Dimensions ca. 280 (W) x 45(H) x 160(D)mm

