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REPAIR INFORMATION

The DFX-1 contains no user-serviceable parts. The manufacturer is not responsible for any damage or personal injury resulting from unauthorized user-servicing or modifications. In addition, the warranty will be void if any unauthorized service by the user is detected. Always return the unit to an authorized Stanton dealer for servicing. For warranty service, contact the point of purchase. Make sure to keep your receipt. For non-warranty service, contact Stanton directly.

DFX - 1
OWNER'S MANUAL

Thank you for making Stanton your first choice in professional DJ equipment.

This innovative instrument has been developed with input from the professional DJ community, bringing to the marketplace a previously unavailable, affordable combination of user-friendly, functional design, rugged construction, and professional quality features.

Stanton and your authorized Stanton dealer are dedicated to your complete satisfaction by offering benchmark service and support throughout the long life of your Stanton product.

Again, we appreciate your patronage, and look forward to many years of making music together.

PLEASE READ CAREFULLY BEFORE USE

FAILURE TO FOLLOW THE INSTRUCTIONS PRINTED BELOW MAY VOID WARRANTY

Follow all security advice printed on the unit.

When removing the unit's AC plug from a power source, grasp and pull the plug, NEVER the cord itself!

Avoid placing the unit near heat sources, such as power amplifiers.

When in use, place the unit on a stable surface, away from vibration. Always use care when carrying the unit. Impact, or heavy vibration may compromise the unit's mechanical integrity. The manufacturer is not responsible for damage resulting from an impact, or misuse.

When in use, place the unit away from sources of hum or noise, such as transformers, or electric motors.

To prevent overheating, always provide

the unit with adequate ventilation air space.

- Avoid stepping on the unit's AC cord. Repeated compression of the cord may lead to electrical shorting.

- To avoid damage due to AC voltage peaks, always disconnect your mixer from the power source during electrical storms. Use a surge protector if possible.

- The unit contains no user-serviceable parts. The manufacturer is not responsible for any damage or personal injury resulting from unauthorized user-servicing or modifications. In addition, the warranty will be void if any unauthorized service by the user is detected. Always return the unit to an authorized Stanton dealer for servicing.

CLEANING THE TRACKBALL



To clean the trackball:

1. Turn ring counter-clockwise to remove.
2. Remove ring and trackball.
3. Clean mechanism with soft tissue or cotton swab.
4. Re-assemble trackball and ring.

Remove the protective ring around the trackball by turning counter-clockwise until you feel it snap (about 1/10th of a turn). Remove the ring and trackball. You can use cotton swab with alcohol or a soft tissue to rub off the dust that has accumulated on the 2 rubber rings that pick up the trackball movements. The rings are located on 2 metal bars at the bottom and left side of the opening.

This unit has been designed and manufactured using quality components. Therefore, it is warranted to be free from defects in materials (limited as specified below), and workmanship for a period of twelve (12) months from the original purchase date. During this period, all service and parts necessary to repair a defect will be free of charge. This limited warranty applies to mechanical parts which are subject to wear and tear as specified:

- Trackball and mechanism, specified durability: 15,000 cycles
- Rotary potentiometers, specified durability: 10,000 cycles
- Switches, specified durability: 10,000 cycles

Consequently, the parts listed above are warranted to be free from defects in materials and workmanship for a period of thirty days (30) days from the original purchase date.

FOR THE WARRANTY TO BE VALID, PLEASE COMPLETE THE
ONLINE WARRANTY REGISTRATION FORM FOUND AT
WWW.STANTONMAGNETICS.COM

DFX-1 USER MANUAL

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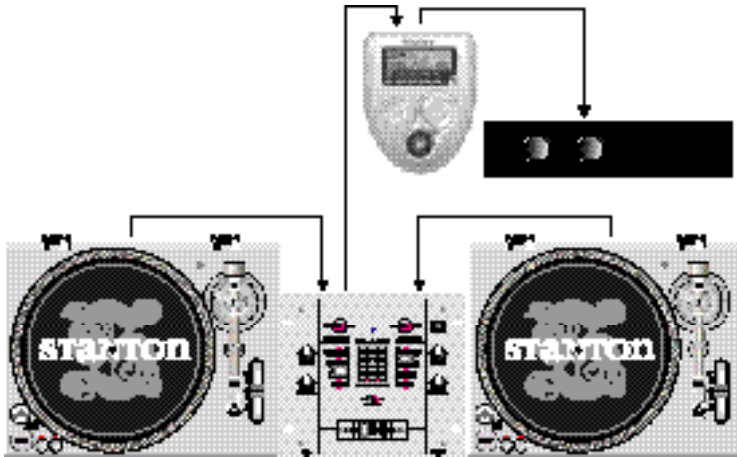
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To get started quickly:
If you think you can figure this thing out on your own and you just don't feel like reading the whole manual, just look at the text boxes like this one for quick instructions.

The DFX-1 can be connected in a variety of configurations. Two are shown below:

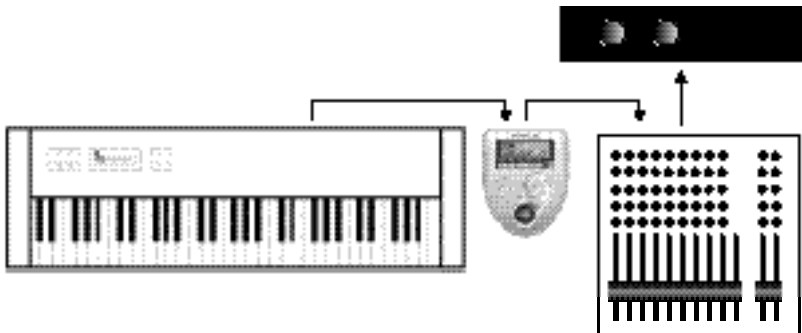
1. CONNECTING INTO A DJ SETUP.

Connect the Master output of your DJ mixer to the Line In on your DFX-1 using either the RCA or 1/4" jacks depending on the connectors provided on the mixer.



2. CONNECTING TO A KEYBOARD.

Connect the left and right outputs of your keyboard to the Line In on your DFX-1 using 1/4" jacks. Connect the Line Out on your DFX-1 to a stereo input channel on any mixer (recording, DJ, etc.).

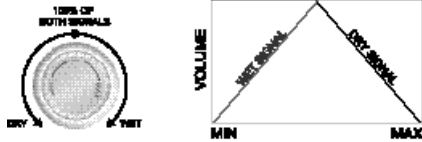


PROBLEM	CAUSE	SOLUTION
The BPM counter keeps flashing 120 BPM.	The audio signal is not loud enough.	Turn up the level of the audio signal gradually until the BPM count is shown.
	The BPM of the audio signal is outside of the selected BPM range.	Press and hold SHIFT while pressing the RANG button to select the desired BPM range.
I don't hear any effects.	The MIX knob is set to minimum, which is 100% dry signal (no effects) and 0% wet signal (with effects).	Turn up the dry/wet mix until you reach what you consider to be a good combination of dry and wet signals.
The trackball doesn't respond very well.	Trackball mechanism is dirty.	Follow the instructions of cleaning the trackball in the manual.
The trackball doesn't respond at all.	X and Y are both bypassed. The LEDs under each button should be lit red.	Press and hold SHIFT while pressing HOLD X and HOLD Y to deselect and reactivate the trackball.

FX ON

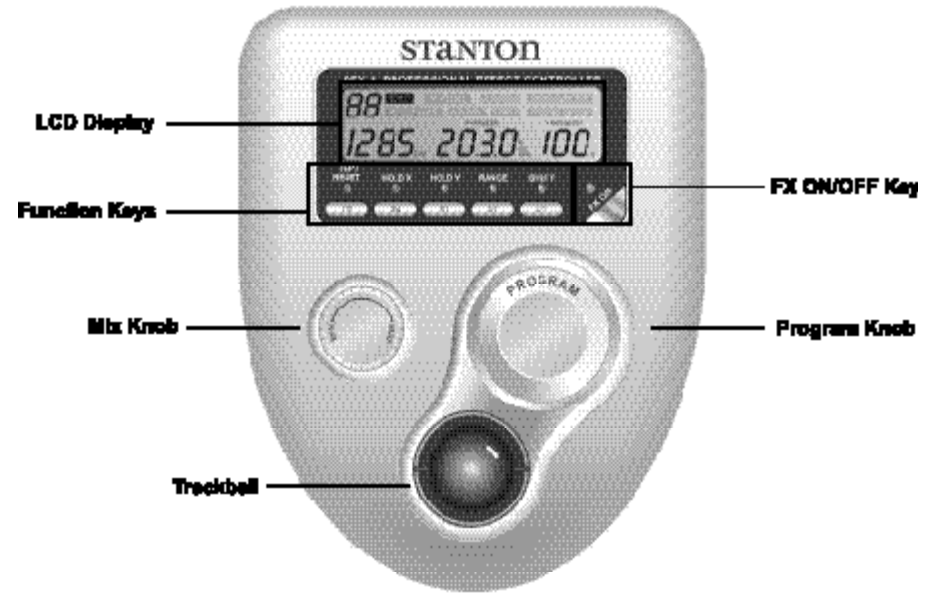
The FX ON button is simply used to turn the effect on or off. Not the unit, just the effect. This buttons also acts as a starting point (See Function Keys).

MIX KNOB

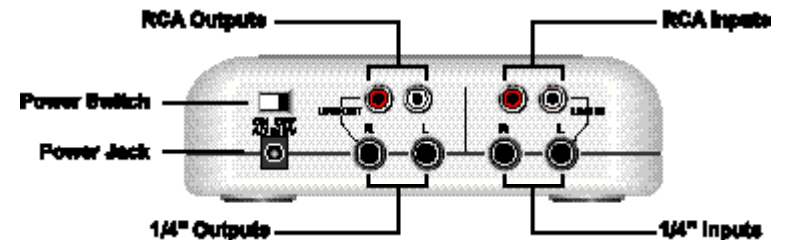


The MIX knob controls the mix of the dry signal (original signal without effects) and wet signal (processed signal with effects), giving the user the option to hear either signal by itself. When the knob is turned all the way to the left, only the dry signal will be heard (even if the effect is on). When turned all the way to the right, only the processed signal will be heard. When the knob is set to 12 o'clock (center, as shown) both signals are at their maximum levels. When turned in either direction from the center, one of the signals will decrease while the other will increase, giving you the option to set the mix of both signals as you desire. For the Echo effect for example, it is best to keep the mix set within the Dry area, giving just enough wet signal to hear the Echo, but not enough so the Echo is louder than the original signal (unless that is the desired effect). For effects such as the Manual Filter or transformer, most of the time, you will want to have only the wet signal.

USER INTERFACE



CONNECTIONS



For more info on the Programs, see page 7.

) Echo	43 Transformer + Auto-filter 1 beat
Echo + Pan 1/2 beat	44 Transformer + Auto-filter 2 beats
2 Echo + Pan 1 beat	45 Flanger
3 Echo + Pan 2 beats	46 Flanger + Echo 1/4 beat
↓ Echo + Transform 1/4 beat	47 Flanger + Echo 1/2 beat
5 Echo + Transform 1/2 beat	48 Flanger + Echo 3/4 beat
5 Echo + Transform 1 beat	49 Flanger + Echo 1 beat
7 Echo + Flanger 1/2 beat	50 Flanger + Pan 1/2 beat
3 Echo + Flanger 1 beats	51 Flanger + Pan 1 beat
) Echo + Flanger 2 beats	52 Flanger + Pan 2 beats
) Echo + Flanger 4 beats	53 Flanger + Transformer 1/4 beat
Echo + Auto-filter 1/4 beat	54 Flanger + Transformer 1/2 beat
2 Echo + Auto-filter 1/2 beat	55 Flanger + Transformer 3/4 beat
3 Echo + Auto-filter 1 beat	56 Flanger + Auto-filter 1/4 beat
↓ Echo + Auto-filter 2 beats	57 Flanger + Auto-filter 1/2 beat
5 Pan	58 Flanger + Auto-filter 1 beat
3 Pan + Echo 1/4 beat	59 Flanger + Auto-filter 2 beats
7 Pan + Echo 1/2 beat	60 Filter
3 Pan + Echo 1 beat	61 Filter + Echo 1/4 beat
) Pan + Transform 1/4 beat	62 Filter + Echo 1/2 beat
) Pan + Transform 1/2 beat	63 Filter + Echo 1 beat
Pan + Transform 1 beat	64 Filter + Pan 1 beat
2 Pan + Flanger 1/2 beat	65 Filter + Pan 2 beats
3 Pan + Flanger 1 beats	66 Filter + Pan 4 beats
↓ Pan + Flanger 2 beats	67 Filter + Transformer 1/4 beat
5 Pan + Flanger 4 beats	68 Filter + Transformer 1/2 beat
3 Pan + Auto-filter 1/4 beat	69 Filter + Transformer 3/4 beat
7 Pan + Auto-filter 1/2 beat	70 Auto-filter
3 Pan + Auto-filter 1 beat	71 Auto-Filter + Echo 1/4 beat
) Pan + Auto-filter 2 beats	72 Auto-Filter + Echo 1/2 beat
) Transformer	73 Auto-Filter + Echo 1 beat
Transformer + Echo 1/4 beat	74 Auto-Filter + Pan 1 beat
2 Transformer + Echo 1/2 beat	75 Auto-Filter + Pan 2 beats
3 Transformer + Echo 1 beat	76 Auto-Filter + Pan 4 beats
↓ Transformer + Pan 1/2 beat	77 Auto-Filter + Trans 1/4 beat
5 Transformer + Pan 1 beat	78 Auto-Filter + Trans 1/2 beat
5 Transformer + Pan 2 beats	79 Auto-Filter + Trans 3/4 beat
7 Transformer + Flanger 1/2 beat	80 Reverb
3 Transformer + Flanger 1 beats	81 Reverb + Pan 1/2 beat
) Transformer + Flanger 2 beats	82 Reverb + Pan 4 beats
) Transformer + Flanger 4 beats	83 Reverb + Transform 1/4 beat
Transformer + Auto-filter 1/4 beat	84 Reverb + Transform 1/2 beat
2 Transformer + Auto-filter 1/2 beat	85 Pitch Shifter

FUNCTION KEYS

The 4/1 key also doubles as a SHIFT key to access the TAP/RESET, HOLD X, HOLD Y, and RANGE functions. To access these function, hold down SHIFT together with the desired Function keys. If any of the Shift functions are activated, the corresponding LED will light up in red. If both functions are used at the same time on one key, the LED will light up orange.

To access SHIFT functions :
Press and hold the SHIFT (4/1) Key while pressing the desired function key.

The Shift functions include:

TAP/RESET: Use this function in case of emergency to manually tap the beat count or reset the BPM counter. To tap the beat, hold down shift while tapping the TAP key. To reset the BPM counter, hold down both keys for 1 second.

To tap or reset the BPM:
1. Press and hold Shift.
2. Tap the BPM on the TAP/RESET key
3. To Reset the BPM, just hold the TAP/RESET key until the BPM flashes 120
4. Release Shift

HOLD X: Use this function to bypass the trackball's X axis so the Y axis can be manipulated by itself. This parameter can still be controlled using the function keys.

HOLD Y: Use this function to bypass the trackball's Y axis so the X axis can be manipulated by itself.

To bypass X or Y:
1. Press and hold Shift.
2. Press HOLD X or HOLD Y
3. Release Shift

RANGE: Use this function to select the BPM counter range. The selections are 60-120, 120-180, and 180-240.

FUNCTION KEYS



The 5 Function keys located under the LCD display serve two purposes. They control the same effect parameter as the Trackball's X axis (see control chart) and are also used for various functions when the SHIFT key is held down. More about the SHIFT key on the next page.

For all effects (except the Manual filter and the Reverb), the X parameter equals the speed of the effect. In this case, the function keys will act as "Beat Selectors" to change the speed of the effect in time with the music (according to the BPM count). From left to right, the keys are marked 1/2, 3/4, 1/1, 2/1, and 4/1. These numbers refer to the beat count picked up by the BPM counter. 1/1 is one beat. By pressing the 1/1 key, the effect will regenerate on every beat. Pressing 1/2 will make the effect regenerate every half beat, and so on. *(TIP: These keys affect the same effect parameter as the trackball's X axis. Use them together to create various rhythmic effects).*

For the Manual Filter, the function keys control the frequency cut-off, and for the Reverb, they control the feedback.

To change the speed* of an effect :
Press any Function Key: 1/2 for a half beat, 3/4 for 3/4 of a beat, 1/1 for every beat, 2/1 for every 2 beats, and 4/1 for ever 4 beats.

The beat selectors also act as starting points for the effects to let the unit know where the first beat is, and together with the BPM counter makes sure the effects are synchronized. The LED above each button will light up in green to show the selected Function key.

* The Functions Keys control the speed of the Echo, Pan , Flanger, Transformer, and Auto-Filter effects. For the Manual Filter, the function keys control the frequency cut-off, and for the Reverb, they control the feedback, as they are not rhythmic effects.

The DFX-1 effect processor was designed for easy and effective real-time control over the music in live applications - although it works really well in a studio environment too. The trackball controls the effect parameters for easy single handed control in live situations when many things often need to happen at the same time.

PROGRAMS

The DFX-1 features 85 unique effect programs constructed from 8 main effects: Echo, Auto Pan, Transformer, Flanger, Manual Filter, Auto Filter, Reverb, and Pitch Shifter. Aside from these 8 single effects, the other programs are combinations. in which 2 of the above effects are daisy chained in the signal path. For these combination presets, only the first effect in the chain can be controlled while the second remains static. The list below shows the speed of the second effects in beats. For example, for Program 01, the audio will be panned left to right every 1/2 beat according to the BPM counter readout.



To select a program:
1. Rotate the program wheel to the desired program
2. Press wheel down to select.

PROGRAM WHEEL

The Program wheel is used to search and select the effect Programs. There are 85 Programs in the DFX-1. To scroll through the Program bank, just turn the wheel in either direction. When the Program wheel is turned, the Program number on the LCD display will begin flashing with the new Program number. Push down to select the desired Program. The display will keep flashing until a new Program is selected. If a new Program is not selected within 5 seconds, the display will return to the current Program.

BPM COUNTER

The built-in BPM counter automatically displays the beat count of the incoming audio signal. When the unit is turned on, the BPM count will flash 120 BPM (located at the bottom left corner of the LCD display). The display will keep flashing until the BPM counter picks up an accurate Beat count. If no audio is passing through the unit, the BPM counter will just keep flashing, unless a beat count is manually entered. To enter the beat manually, simply hold down SHIFT and tap the tempo on the TAP/RESET key. To reset the beat count, simply press and hold both SHIFT and TAP/RESET for 2 seconds. For better accuracy, the BPM counter is divided into 3 ranges 60-120, 120-180, 180-240 BPM's. To select the desired range, hold down SHIFT while pressing the RANGE button until the desired range is displayed to the right of the BPM counter.

To tap or reset the BPM:

1. Press and hold Shift.
2. Tap the BPM on the TAP/RESET key
3. To Reset the BPM, just hold the TAP/RESET key until the BPM flashes 120
4. Release Shift

To select the BPM range:

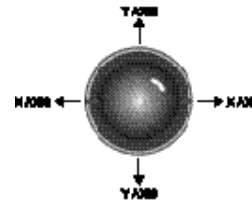
1. Press and hold SHIFT.
2. Press the RANGE key until the desired range appears
4. Release SHIFT

LCD DISPLAY

The LCD display lets you know just about everything going inside the unit. At the top left corner is the Program number. Next to it, the actual effect is displayed. At the bottom left corner is the BPM counter, and to the right are the X and Y parameters. The X parameter is shown in milliseconds (ms) for all rhythmic effects: Echo, Auto Pan, Transformer, Flanger, and Auto-Filter; KiloHertz (KHz) for the Manual Filter; and feedback percentage (%) for the Reverb and Pitch Shifter. The Y parameter is always shown in percentage (See control chart).



TRACKBALL



The trackball controls two of each effect's parameters (see control chart below) simultaneously. The X Axis refers to the left to right movement of the trackball, and the Y axis refers to the up and down movements. It is possible to use the trackball to control only one parameter at a time. For example, once the X parameter is set to the desired value, it can be bypassed while the Y parameter is changed, and vice versa. Both X and Y can be bypassed simultaneously.

To change effect parameters:

1. Move the trackball left to right to increase X parameters.
2. Move the trackball up to increase the Y parameters. Down to decrease.

To bypass X or Y:

1. Press and hold Shift.
2. Press HOLD X or HOLD Y
3. Release Shift

TRACKBALL CONTROL CHART

EFFECT	PARAMETER	X AXIS		Y AXIS	
		PARAMETER	RANGE	PARAMETER	RANGE
ECHO	Speed		2ms - 1000ms	Feedback	0-100%
AUTO PAN	Speed		30ms - 3500ms	N/A	
TRANS	Speed		10ms - 7000ms	On/Off Ratio	0-100%
FLANGER	Speed		100ms - 9000ms	Feedback	0-100%
FILTER	Frequency Cut-Off		Low Pass / High Pass 3Hz - 20KHz	Resonance	0-100%
AUTO FILTER	Speed		100ms - 9000ms	Resonance	0-100%
REVERB	Feedback		0-100%	Room Size	0-100%
PITCH SHIFTER	Pitch		0-100%	N/A	