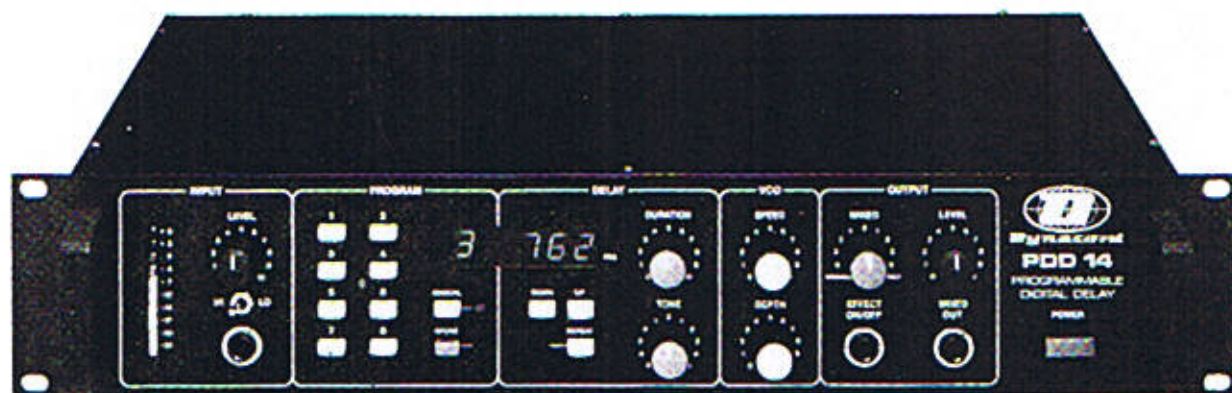




Dynacord

**Bedienungsanleitung
Operating Manual
Mode d'emploi**



PDD 14

PROGRAMMABLE
DIGITAL DELAY

PDD 14

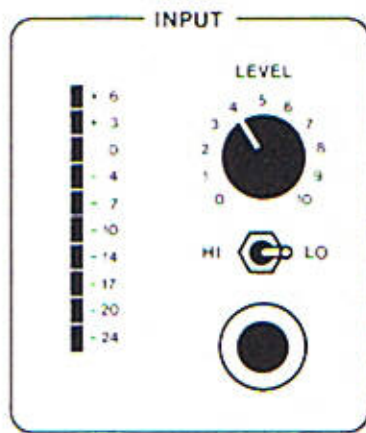
The PDD 14 is a top quality programmable studio digital delay. Up to eight different sounds can be stored in the non-volatile memory and called up directly as required. The stored programs are accessible manually at all times without altering the contents of the memory. The PDD 14 generates echo (up to 760 msec), flanging, doubling and chorus effects digitally and in studio quality. Its quasi 14 bit system operates without compander, i.e. without disruptive "breathing". Manual alteration of a stored program and effect OFF are displayed by a flashing program number or light, respectively.

LED chains for input signal, input level control with sensitivity switching, displays for program number and delay, 8 programming buttons, tone control, VCO control with speed indication, mixed out and output level control, repeat function and ground lift switch and connections for foot switch.

PFS 14

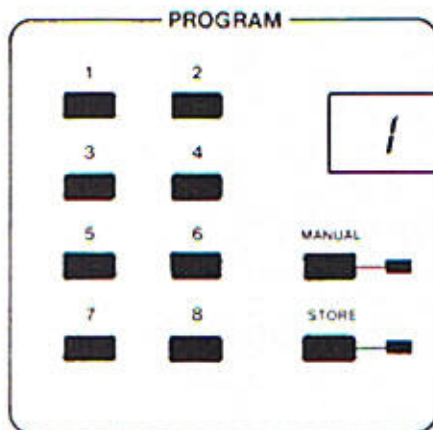
The PFS 14 foot switch terminal strip (extra) gives direct access to eight stored programs and effect ON/OFF function as well as showing simultaneously the number of the selected program.

FRONT-PANEL



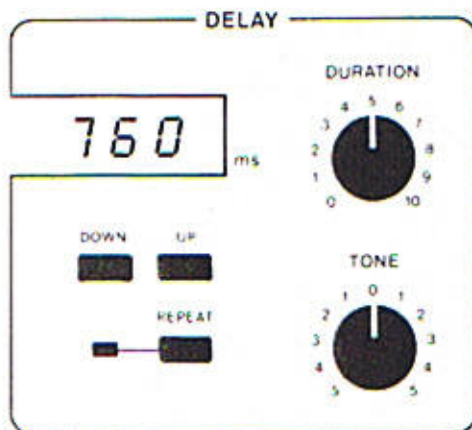
INPUT

On the front and back panels are input jacks, both wired in parallel. Input sensitivity is from 5 mV to 3 V/50 kOhm. The microphone or instrument can be adapted appropriately by means of the HI-LO switch. The level control and LED modulation display serve to provide the correct level and good overall dynamics. In the red area the input is beginning to over-modulate.



PROGRAM

Eight different effects programs (program buttons) can be stored, called up and altered as required. The left-hand digit of the fourdigit LED shows the number of the program currently selected. When the machine is set up Program 1 is displayed. A zero in this position means that manual operation has been selected. This selection is made by pressing the MANUAL button at which point the green LED comes on. A flashing light behind the program display means that the effects are switched off. A flashing program display means that the stored program has been influenced by changing a control or button (alteration not stored). See programming for STORE button.



DELAY

The three right-hand digits in the display show the delay in msec with a range of 0 - 760 msec. The programmable UP and DOWN buttons are used to increase or decrease this delay in msec increments. If the button is pressed briefly the delay changes by 1 msec. If held down the delay changes more quickly at three different speeds - the longer the button is pressed down the faster the change. If the REPEAT button is pressed the current signal will be repeated continuously with a delay of 760 msec. This function is cut off by pressing the REPEAT button a second time. The LED flashes when the REPEAT function is on. (This function can also be remotely controlled).

The DURATION control (programmable) alters the number of echo repeats. With the TONE control (programmable) the frequency response of the effect path altered. Turning clockwise increases the treble and reduces the bass. The opposite effect is obtained by turning anti-clockwise.

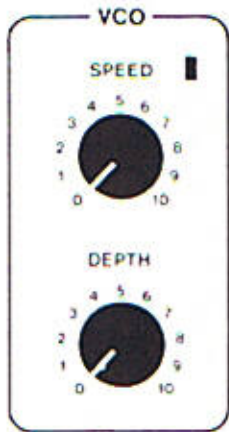
VCO

Control for phasing and chorus effects, etc. SPEED control (programmable) for modulation frequency. DEPTH control (programmable) for modulation depth. The LED flashes in time with the modulation frequency when the VCO is working.

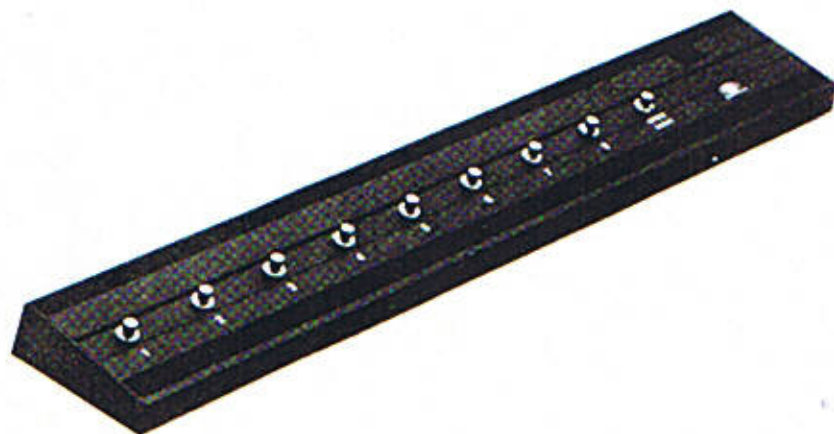
OUTPUT

The MIXED control (programmable) determines the amount of original and effect signal at the MIXED OUT terminal. The LEVEL control (programmable) steplessly alters the output level at the MIXED OUT and DELAY OUT terminals. Effect ON/OFF. For foot switch connection (FS 12).

OPTIONS

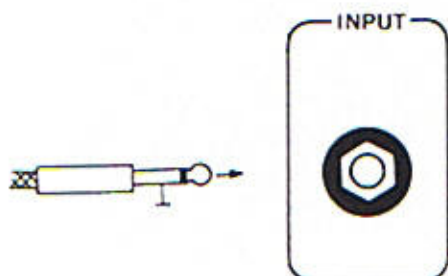


FS 12



PFS 14

REAR-PANEL



INPUT

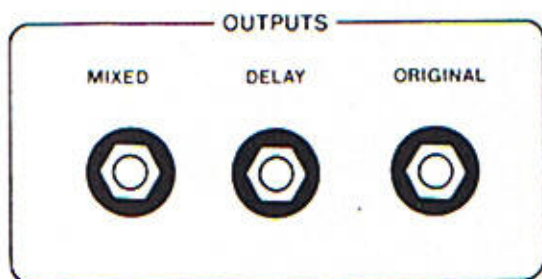
Input jack on rear panel parallel to input jack on front panel.
Input sensitivity 5 mV - 3 V/50 kOhm.

OUTPUTS

ORIGINAL jack provides input signal dependent on input control and HI-LO switch.
0 dBm = 775 mV/500 Ohm.

DELAY jack supplies effect signal dependent on OUTPUT level control (mixed control non-operational).
+ 6 dBm = 1.55 V/500 Ohm.

MIXED jack supplies original and effect signals dependent on mixed and OUTPUT level controls.
+ 6 dBm = 1.55 V/500 Ohm.

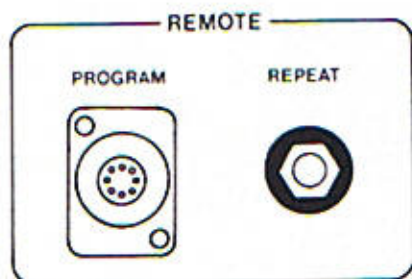


REMOTE

REPEAT jack.
The REPEAT function can be switched on and off by connection to the FS 12 foot switch.

PROGRAM

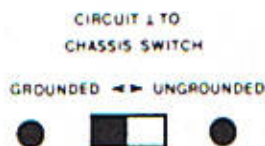
All 8 programs and the effects ON/OFF function can be remotely controlled by connection to the PFS 14 foot switch.



GROUND LIFT SWITCH

An anti-hum slide switch in the case of ground loops separates the circuit earth from the housing. If the housing of several appliances are connected electrically (e.g. installation of a rack) all GROUND LIFT switches except one should be pushed to the "ungrounded" setting.

Mains connection jack for supplied mains cable.



MANUAL

When the MANUAL button (program display 0) is pressed all controls and buttons operate in the same way as a non-programmable echo appliance. When the appliance is switched on the MANUAL delay is always 300 msec.

If the delay is altered using with the UP-DOWN buttons the new delay remains when the MANUAL button is pressed later.

PROGRAM SELECTION

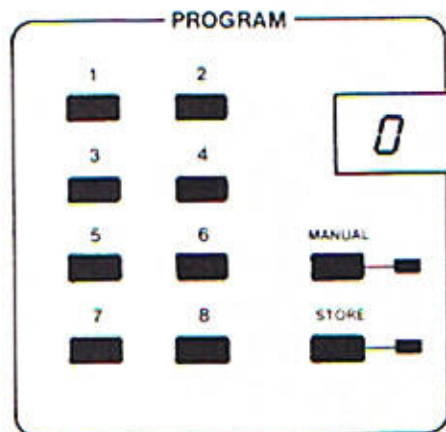
A stored program is selected by pressing one of the program buttons 1 - 8. The program number is displayed on the appliance and foot terminal strip.

Programmable controls and buttons. DURATION - TONE - SPEED - DEPTH - MIXED - OUTPUT LEVEL and DELAY TIME.

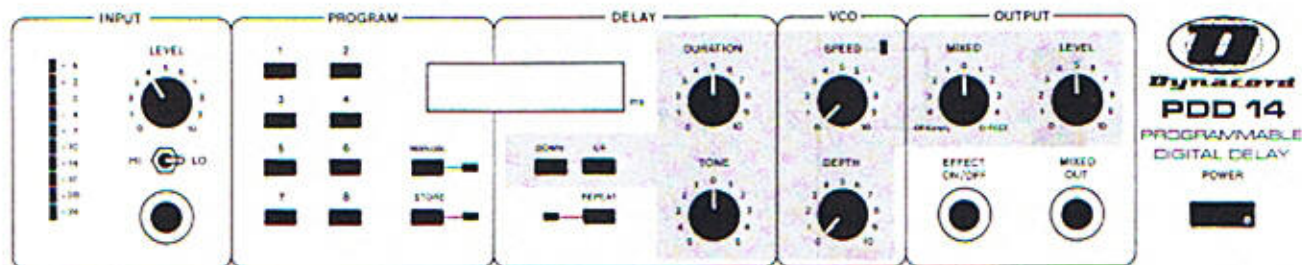
These settings can be altered as required. The size of the alteration directly effects the effect way.

(When a switch is turned clockwise and anticlockwise as far as it will go the position number is the same as the output signal).

When the program is being altered the program display flashes.

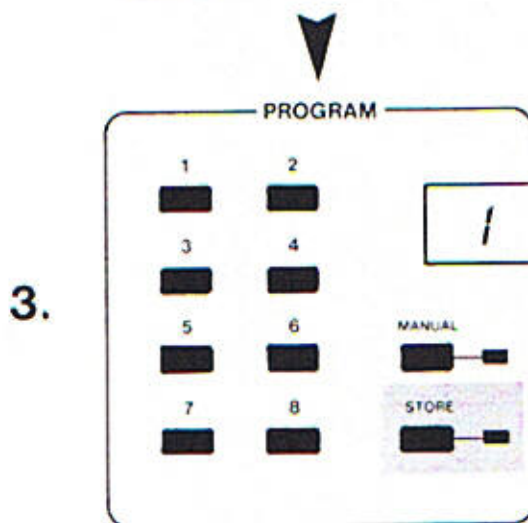
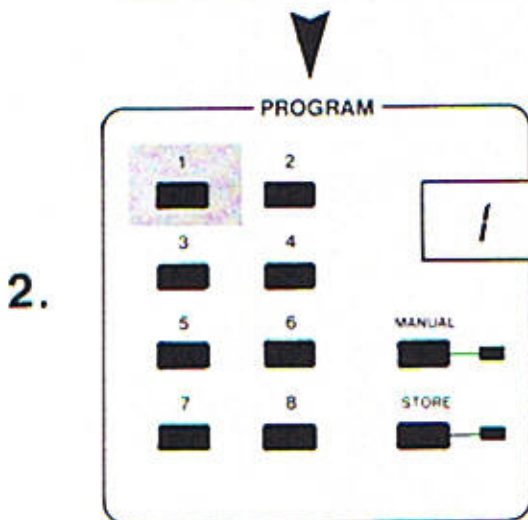
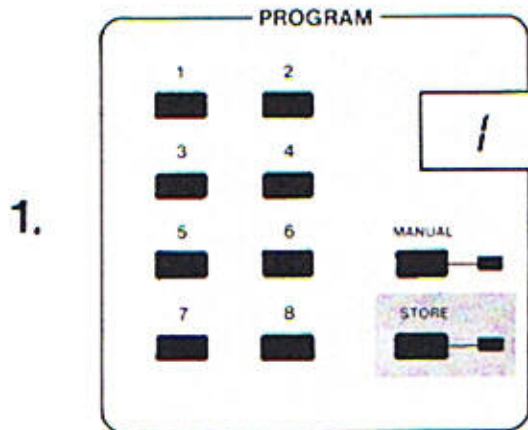


PROGRAMMABLE CONTROLS AND BUTTONS



Attention!

THE EFFECT CURRENT HEARD IS THE ONE THAT IS BEING STORED.



Programming sequence

1. Press STORE button briefly
STORE LED comes on
2. Select desired program by pressing appropriate button (e.g.) button 1)
3. Press STORE button a second time
4. Program display stops flashing for a few seconds (programming taking place).

The programming has not been successful if the STORE LED goes out before the next button is pressed (about 4 secs).

The STORE LED also goes out if the wrong button is pressed.

PLEASE NOTE

A number of service programs are integrated in the appliance. These are called up if several program buttons are pressed at the same time. Should unexplained effects appear through accidentally pressing more than one button at the same time, the appliance must be switched off and then switched on again.

SERVICE PROGRAM

Bank A/B

Press program buttons 2, 4 and 6 simultaneously.

By pressing these buttons the appliance is switched over to "bank B". All functions of the PDD 14 remain as with the standard (bank A). By pressing buttons again appliance is switched back to original position. Bank B gives access to an additional 8 permanent program positions independent of bank A. The green manual LED flashes continuously (irrespective of whether MANUAL button is pressed or not) to indicate bank B status.

Copying or editing from bank A to bank B, or vice versa, is possible as follows:

1. STORE button (as standard)
2. Buttons 2, 4 and 6 simultaneously (switch banks)
3. Select program position 1 - 8 (as standard)
4. STORE button (as standard)

With this program there may be tested the functions STORE and so on without influencing the programs of customers.

AD Test

Press program buttons 2, 4 and 8 simultaneously.

With this program one of the six programmable controls can be displayed on the two right-hand positions on the display.

Left stop = 0, right stop = 63

The control is selected with the program buttons 1 - 6 (shown in left-hand display).

- 1 = OUTLEVEL
- 2 = MIXED
- 3 = DURATION
- 4 = TONE
- 5 = VCO-SPEED
- 6 = VCO-DEPTH

Can be used as AD converter test, i.e. everything functions from control to micro-processor if display is correct.

Recalling control settings

If a good program has been determined in the MANUAL position, the settings (numbers 0-63) of the 6 controls can be noted on this service program. In this way the echo can be recalled at any time.

Program ended by switching POWER OFF.

SPECIFICATIONS

Input	5mV - 3 V/50 kOhm
Tone control	+ 10 dB
Effect	Delay
Outputs	
Original left/right	0 dbm Δ 775 mV/0.5 kOhm
Effect left/right	2 V/0.5 kOhm
Mixed	2 V/0.5 kOhm
Frequency response original	5 Hz - 50 kHz
Frequency response effect	20 Hz - 15 kHz
Signal-to-noise ratio original	> 94 dB (A)
Signal-to-noise ratio effect	> 85 dB (A)
Harmonic distortion factor	
Original - effect	< 0.1 % < 0.3 %
Dimensions (w x h x d)	483 x 88 x 260 mm
Weight	8,8 Ibs
Max. power input	20 VA
Extras	PFS 14 foot terminal strip FS 12 for switching effects

- Subject to Modifications -

Einstellbeispiele 1-8 vom Hersteller vorprogrammiert. Die Zahl (0-63) unter den programmierbaren Reglern erleichtert das genaue Wiederfinden von Reglereinstellungen über das Serviceprogramm AD Test.

The following effect settings 1-8 are preset and programmed by the factory. The numbers (0-63) beneath the programming controls allow to find the same setting of controls again via the service program "AD test".

Les suivants programmes d'effets (1-8) étaient mémorisés dans l'usine. Les chiffres (0-63) au dessous des réglages programmables facilitent de retrouver exactement les positions des réglages par le programme service "AD Test".

Echo

INPUT LEVEL: 0-8, 10, 12, 14, 16, 18, 20, 22, 24. HI/LO. **PROGRAM** 1-8. MANUAL, STORE. **DELAY** 764. DURATION: 23, TONE: 31, REPEAT. **VCO** SPEED: 00, DEPTH: 02. **OUTPUT** MIXED: 32, LEVEL: 48. Dynacore PDD 14 PROGRAMMABLE DIGITAL DELAY POWER.

Chorus-Echo

INPUT LEVEL: 0-8, 10, 12, 14, 16, 18, 20, 22, 24. HI/LO. **PROGRAM** 1-8. MANUAL, STORE. **DELAY** 315. DURATION: 10, TONE: 31, REPEAT. **VCO** SPEED: 03, DEPTH: 05. **OUTPUT** MIXED: 32, LEVEL: 48. Dynacore PDD 14 PROGRAMMABLE DIGITAL DELAY POWER.

Slapback-Echo

INPUT LEVEL: 0-8, 10, 12, 14, 16, 18, 20, 22, 24. HI/LO. **PROGRAM** 1-8. MANUAL, STORE. **DELAY** 120. DURATION: 26, TONE: 21, REPEAT. **VCO** SPEED: 00, DEPTH: 00. **OUTPUT** MIXED: 32, LEVEL: 48. Dynacore PDD 14 PROGRAMMABLE DIGITAL DELAY POWER.

Hard - Reverb

INPUT LEVEL: 0-8, 10, 12, 14, 16, 18, 20, 22, 24. HI/LO. **PROGRAM** 1-8. MANUAL, STORE. **DELAY** 085. DURATION: 41, TONE: 37, REPEAT. **VCO** SPEED: 43, DEPTH: 06. **OUTPUT** MIXED: 32, LEVEL: 48. Dynacore PDD 14 PROGRAMMABLE DIGITAL DELAY POWER.

Doubling

Control panel for the Doubling effect. The panel is divided into sections: INPUT, PROGRAM, DELAY, VCO, and OUTPUT. The DELAY section shows a duration of 045 ms. The VCO section shows a speed of 29 and a depth of 05. The OUTPUT section shows a mixed effect of 32 and a level of 48. The program number 5 is highlighted in a box.

INPUT: LEVEL knob (0-10), HI/LO switch, input jack.

PROGRAM: 8 program buttons (1-8), MANUAL, STORE, DOWN, UP, REPEAT buttons.

DELAY: DURATION knob (00-99) set to 045, TONE knob (0-31) set to 31.

VCO: SPEED knob (0-10) set to 29, DEPTH knob (0-10) set to 05.

OUTPUT: MIXED knob (ORIGINAL, EFFECT, MIXED) set to 32, LEVEL knob (0-10) set to 48, MIXED OUT and LEVEL OUT jacks.

Dynacore PDD 14 PROGRAMMABLE DIGITAL DELAY POWER

Chorus

Control panel for the Chorus effect. The panel is divided into sections: INPUT, PROGRAM, DELAY, VCO, and OUTPUT. The DELAY section shows a duration of 020 ms. The VCO section shows a speed of 05 and a depth of 44. The OUTPUT section shows a mixed effect of 32 and a level of 48. The program number 6 is highlighted in a box.

INPUT: LEVEL knob (0-10), HI/LO switch, input jack.

PROGRAM: 8 program buttons (1-8), MANUAL, STORE, DOWN, UP, REPEAT buttons.

DELAY: DURATION knob (00-99) set to 020, TONE knob (0-31) set to 28.

VCO: SPEED knob (0-10) set to 05, DEPTH knob (0-10) set to 44.

OUTPUT: MIXED knob (ORIGINAL, EFFECT, MIXED) set to 32, LEVEL knob (0-10) set to 48, MIXED OUT and LEVEL OUT jacks.

Dynacore PDD 14 PROGRAMMABLE DIGITAL DELAY POWER

Room Ambience

Control panel for the Room Ambience effect. The panel is divided into sections: INPUT, PROGRAM, DELAY, VCO, and OUTPUT. The DELAY section shows a duration of 030 ms. The VCO section shows a speed of 63 and a depth of 05. The OUTPUT section shows a mixed effect of 32 and a level of 48. The program number 7 is highlighted in a box.

INPUT: LEVEL knob (0-10), HI/LO switch, input jack.

PROGRAM: 8 program buttons (1-8), MANUAL, STORE, DOWN, UP, REPEAT buttons.

DELAY: DURATION knob (00-99) set to 030, TONE knob (0-31) set to 45.

VCO: SPEED knob (0-10) set to 63, DEPTH knob (0-10) set to 05.

OUTPUT: MIXED knob (ORIGINAL, EFFECT, MIXED) set to 32, LEVEL knob (0-10) set to 48, MIXED OUT and LEVEL OUT jacks.

Dynacore PDD 14 PROGRAMMABLE DIGITAL DELAY POWER

Flanging

Control panel for the Flanging effect. The panel is divided into sections: INPUT, PROGRAM, DELAY, VCO, and OUTPUT. The DELAY section shows a duration of 001 ms. The VCO section shows a speed of 01 and a depth of 46. The OUTPUT section shows a mixed effect of 32 and a level of 48. The program number 8 is highlighted in a box.

INPUT: LEVEL knob (0-10), HI/LO switch, input jack.

PROGRAM: 8 program buttons (1-8), MANUAL, STORE, DOWN, UP, REPEAT buttons.

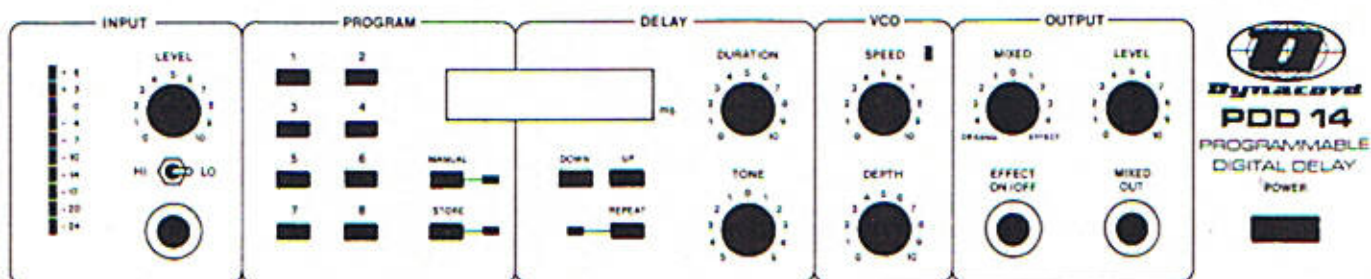
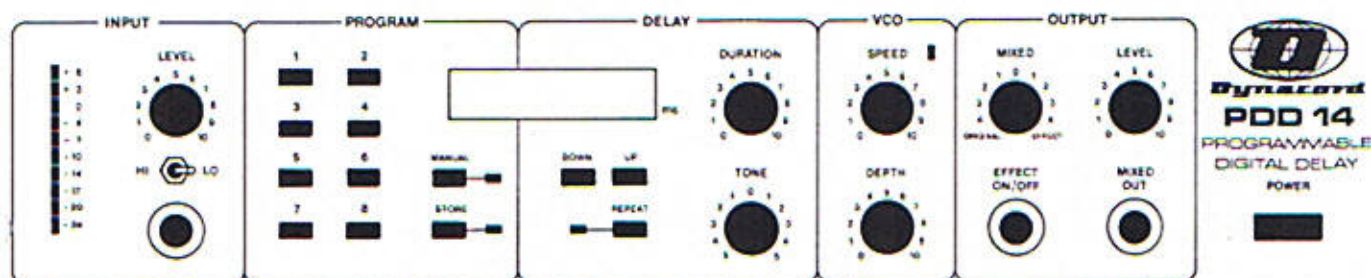
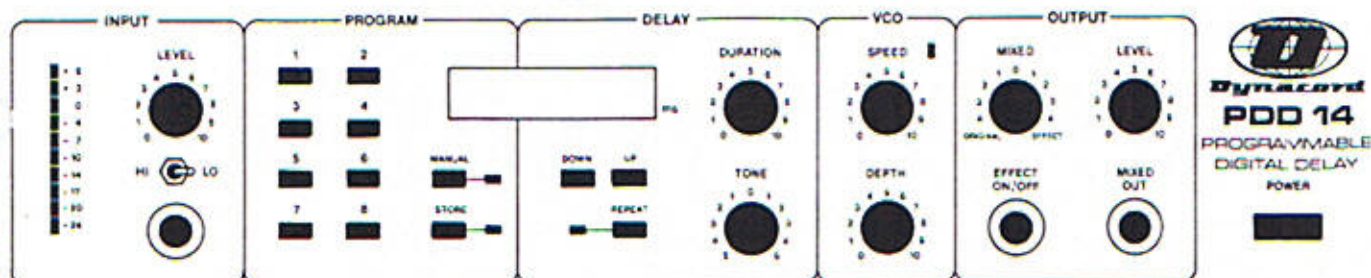
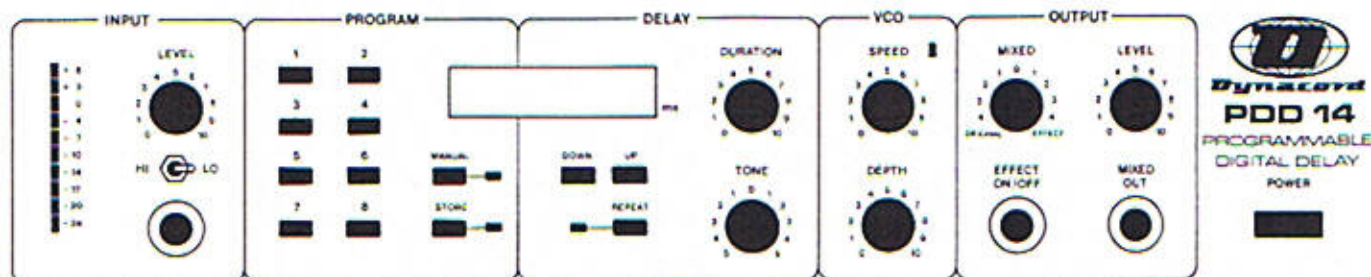
DELAY: DURATION knob (00-99) set to 001, TONE knob (0-31) set to 55.

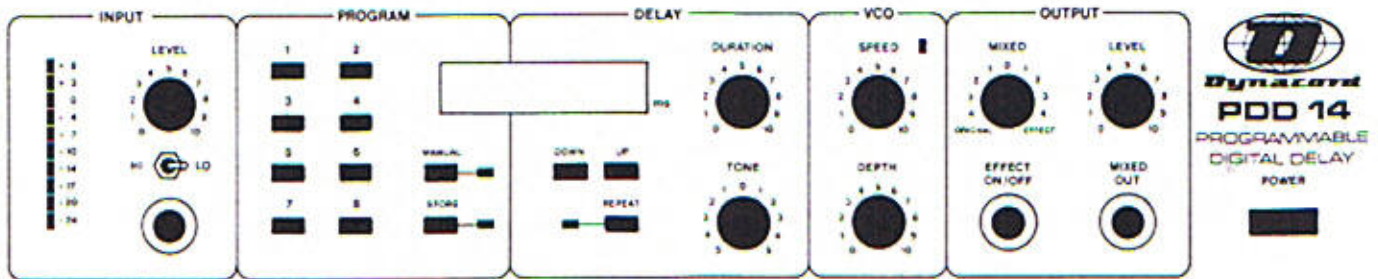
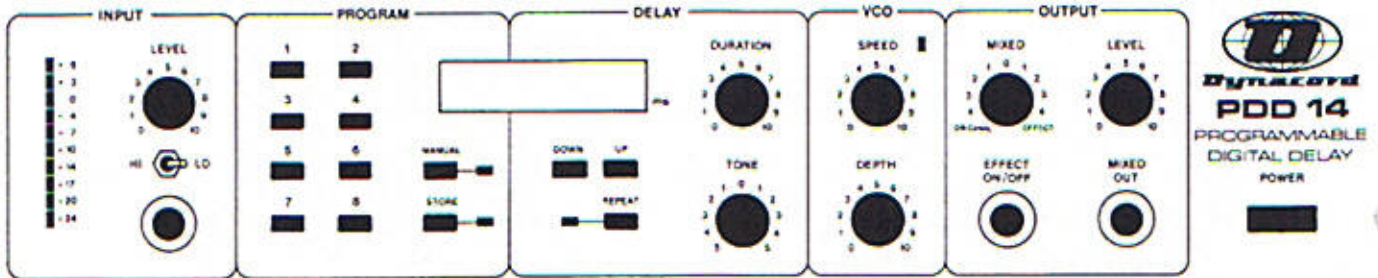
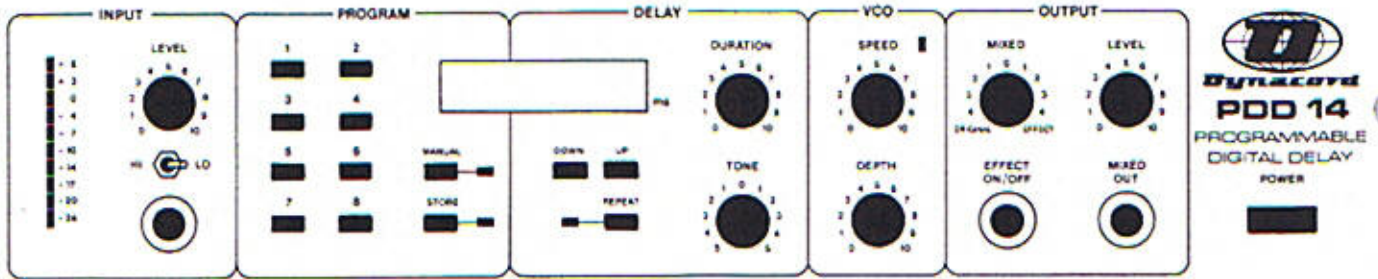
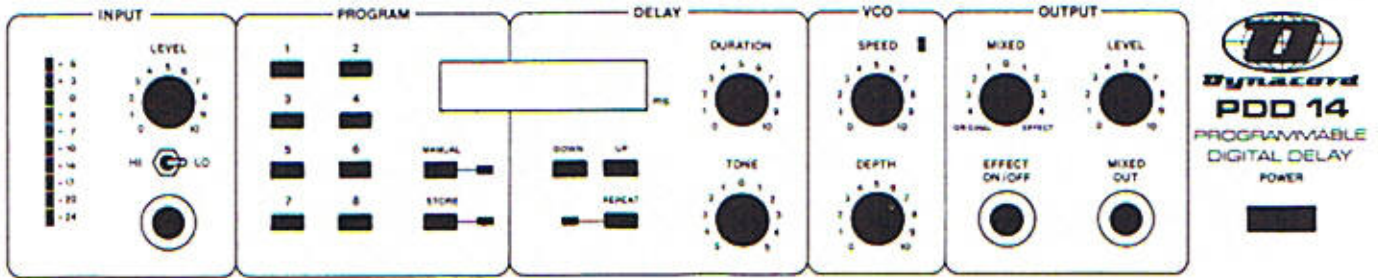
VCO: SPEED knob (0-10) set to 01, DEPTH knob (0-10) set to 46.

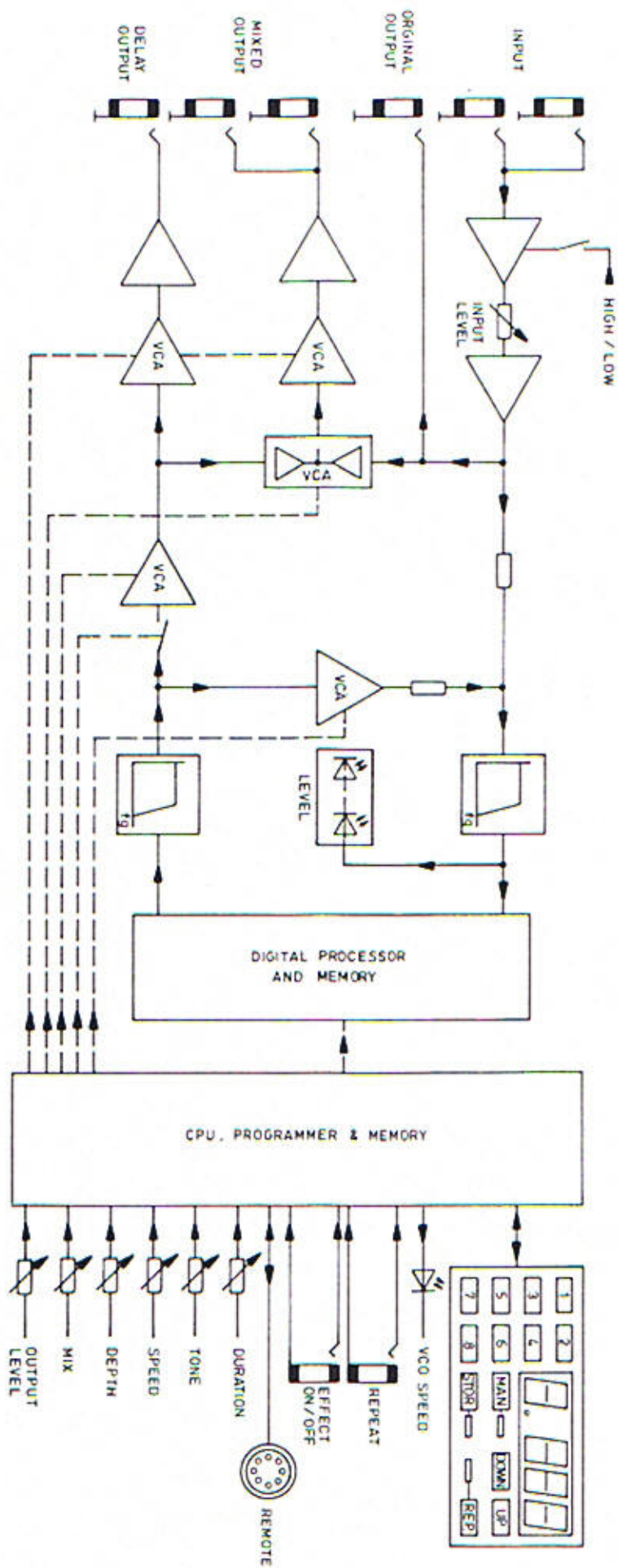
OUTPUT: MIXED knob (ORIGINAL, EFFECT, MIXED) set to 32, LEVEL knob (0-10) set to 48, MIXED OUT and LEVEL OUT jacks.

Dynacore PDD 14 PROGRAMMABLE DIGITAL DELAY POWER

EINSTELLDIAGRAMME / DIAGRAMME / DE MONTAGE









SERVICE

SIEMENSSTR. 41 - 43
8440 STRAUBING
TEL. (0 94 21) 3 10 - 1

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