Additional instructions for the Dirk_Hendrik modified Digitech "XP-500".

Background:
The concept of the patch expansion of Digitech XP pedals exists for quite a few years and this modification has been marketed (not by Digitech) as the XP1000. Since all XP's do share the same hardware with some minor alterations depending on the model all XP's can be modified into one and another. By adding a rotary selector that selects which software the XP pedal will execute the 4 different versions can be chosen. Serious drawback in this concept was the XP's power connector needed to be unplugged between switching modes.

The XP500 does not have this drawback. It can be left powered on when changing mode. The reset that is required to make the XP load it's "new" XP version is issued by the added hardware. This means that when a different XP mode is chosen one will see the XP go through it's startup routines automatically.

Differences between the original XP's and the XP500:
The XP100 Whammy Wah originally has a dry and an mixed dry-effect output. In order to be able to do the stereo effects available on the other 3 XP's the dry output is changed to a dry-wet mix as well.

For basic operation of the XP's refer to the XP product manual on the Digitech website. However, this manual is a general one and does not differentiate between the 4 different XP's. Therefore some info that can only be found on the XP's bottom plate:

XP100, 200, 400 Factory Reset/pedal Calibrate (not available on the XP300):
Press and hold the <BYPASS/)Hold)Tuner? Footswitch and apply power to the unit. Wait until the letters r5 appear in the display and release the footswitch. The display will now read Pd and CR, indicating that you are in the Pedal Calibrate mode. Once Pb appears, rock the pedal back to the heel position and press the <BYPASS> footswitch. When PF appears rock the pedal forward to the toe position and press the <BYPASS> footswitch. SA will next appear in the display to confitm the pedal is now calibrated.

XP100 Gate Threshold Calibration:

- Press and hold the <Gate Calibrate> button and apply power
- The display will read "th"
- Use the expression pedal to set the Threshold (pedal forward is higher, back is lower, full back is off)
- Press the <mode/program> button to save

Patch names and controls:

XP100 Whammy Wah

Program	Type	Program Name	Exp. Pedal Controls
1	Volume	Volume Pedal	Volume
2	Wah	Original Cry Wah	Wah Frequency
3	Wah	Cry Wah 2	Wah Frequency
4	Wah	Dark and Deep	Wah Frequency
5	Wah	Sweet Spot	Wah Frequency
6	Wah	Sweet Spot 2	Wah Frequency
7	Auto wah	Ariginal Cry Auto	Sensitivity
8	Auto wah	Envelope Filter	Sensitivity

9	Auto wah	Brass Attack	Sensitivity
10	Auto wah	Original Cry Auto Wah	Attack Time
11	Auto wah	Envelope Filter	Attack Time
12	Auto wah	Brass Attack	Attack Time
13	Whammy	Up 1 Octave	Pitch Shift
14	Whammy	Up 2 Octaves	Pitch Shift
15	Whammy	Up 2nd	Pitch Shift
16	Whammy	Down 2nd	Pitch Shift
17	Whammy	Down 4th	Pitch Shift
18	Whammy	Down 1 Octave	Pitch Shift
19	Whammy	Down 2 Octaves	Pitch Shift
20	Whammy	Down 6 Octaves	Pitch Shift
21	Whammy	Down 1 Oct- Up 1 Oct	Harmony Pitch
22	Harmony	Down 4th- Down 3rd	Harmony Pitch
23	Harmony	Up 5th - Up 6th	Harmony Pitch
24	Harmony	Up 4th - Up 5th	Harmony Pitch
25	Harmony	Up min 3rd- Up maj 3rd	Harmony Pitch
26	Harmony	Up 2nd - Up 3rd	Harmony Pitch
27	Harmony	Down 4th -Up 5th	Harmony Pitch
28	Harmony	Up 5th - Up 1 oct	Harmony Pitch
29	Harmony	Detuner	Detune Amount

XP200 Modulator

Program	Type	Program Name	Exp. Pedal Controls
1	Rotary Spkr	Rotary 1 Slow/Fast	Rotor/Horn Speed
2	Rotary Spkr	Rotary 1 Brake/Fast	Rotor/Horn Speed
3	Rotary Spkr	Rotary 2 Slow/Fast	Rotor/Horn Speed
4	Rotary Spkr	Rotary 2 Brake/Fast	Rotor/Horn Speed
5	Rotary Spkr	Rotary 3 Slow/Fast	Rotor/Horn Speed
6	Rotary Spkr	Rotary 3 Brake/Fast	Rotor/Horn Speed
11	Chorus	2 Voice Shallow	Chorus Level
12	Chorus	2 Voice Medium	Chorus Level
13	Chorus	2 Voice Deep	Chorus Level
14	Chorus	4 Voice Shallow	Chorus Level
15	Chorus	4 Voice Medium	Chorus Level
16	Chorus	4 Voice Deep	Chorus Level
21	Flanger	Shallow	Flange Level
22	Flanger	Medium	Flange Level
23	Flanger	Deep	Flange Level
24	Flanger	Manual 1	Flange Sweep
25	Flanger	Manual 2	Flange Sweep
26	Flanger	Triggered	Trigger Sensitivity
31	Phaser	Shallow	Phaser Level
32	Phaser	Medium	Phaser Level
33	Phaser	Deep	Phaser Level
34	Phaser	Manual 1	Phaser Sweep
35	Phaser	Manual 2	Phaser Sweep
36	Phaser	Triggered	Trigger Sensitivity
41	Vibrato	Vibrato 1	Intensity
42	Vibrato	Vibrato 2	Intensity
43	Vibrato	Vibrato 3	Intensity
44	Vibrato	Vibrato 4	Intensity
45	Vibrato	Vibrato 5	Speed
46	Vibrato	Vibrato 6	Speed
51	Tremolo	Shallow	Tremolo Speed
52	Tremolo	Deep	Tremolo Speed
53	Auto Pan	Narrow	Panner Speed
54	Auto Pan	Wide	Panner Speed
55	Panner	Manual	Left/Right Pan
61	Volume	Volume Pedal	Volume

XP300 Space Station:

Program	Type	Program Name	Pedal Controls
1	Synth	String Swell – Octave	Input Level

2	Synth	String Swell – 5ths	Input Level
3	Synth	String Swell – 4ths	Input Level
4	Synth	String Swell – Chorus	Input Level
5	Synth	String Swell – Octave	Shift Level
6	Synth	String Swell – 5ths	Shift Level
7	Synth	String Swell – 4ths	Shift Level
8	Synth	String Swell – Strings	Strings Level
9	Synth	String Swell – Octabass	Bass Level
10	Warp	Time Warp Delay	Forward/Stop/Reverse
11	Warp	Time Warp Delay	Forward/Stop
12	Warp	Time Warp Delay	Stop/Reverse
13	Warp	Time Warp Delay	Stop/Reverse w/Dry
14	Warp	Reverse Playback	Delay Time
15	Warp	Reverse Playback	Delay Time w/Dry
16	Warp	No Shift › Oct Up	Whammy Speed
17	Warp	No Shift › Oct Down	Whammy Speed
18	Warp	Oct Up › No Shift	Whammy Speed
19	Warp	Oct Down › No Shift	Whammy Speed
20	Alien	Pixellator	Mix
21	Alien	Pixellator	Amount
22	Alien	Alien Pixellator I	Rate
23	Alien	Alien Pixellator II	Input Level
24	Alien	Ring Modulator	Mix
25	Alien	Ring Modulator	Amount
26	Alien	Alien Ring Modulator I	Rate
27	Alien	Alien Ring Modulator II	Input Level
28	Alien	Sample/Hold	Rate
29	Alien	Sample/Hold – Octave	Rate
30	Sonic	A – Resonator I – V	Mix
31	Sonic	D – Resonator I – V – III	Mix
32	Sonic	Chromatic Resonator	Mix
33	Sonic	A – G Resonator I – V	Resonance
34	Sonic	Arpeggiator Down	Input Level
35	Sonic	Arpeggiator Up – b3	Input Level
36	Sonic	Arpeggiator Up – Maj 3rd	Input Level
37	Sonic	Arpeggiator Dream	Input Level
38	Sonic	Arpeggiator Up 4ths	Input Level
39	Sonic	Arpeggiator Up 5ths	Input Level
40	Volume	Volume Pedal	Volume

XP400 Reverberator

Program	Type	Program Name	Exp. Pedal Controls
1	Arena	Empty Arena	Input Level
2	Arena	Filled Arena	Input Level
3	Arena	Parking Garage	Output level
4	Hall	Big Hall	Input Level
5	Hall	Master Hall	Input Level
6	Hall	Small Hall	Input Level
7	Hall	Warm Hall	Input Level
8	Hall	Ducked Cathedral	Ducker Attenuation
10	Studio	Studio	Input Level
11	Studio	Live Studio	Input Level
12	Studio	Vocal Studio	Input Level
13	Studio	Rich Studio	Input Level
14	Room	Small Room	Input Level
15	Room	Bright Room	Input Level
16	Room	Wood Room	Input Level
17	Room	Large Wood Room	Input Level
18	Room	Live Room	Input Level
20	Plate	Small Thin Plate	Input Level
21	Plate	Medium Thin Plate	Input Level
22	Plate	Large Thin Plate	Input Level
23	Plate	Small Rich Plate	Input Level
24	Plate	Medium Rich Plate	Input Level
25	Plate	Large Rich Plate	Output level
26	Plate	Water Tank	Output level

27	Plate	Ducked Long Plate	Ducker Attenuation
28	Plate	Infinite Plate	Output level
30	Spring	2 Spring 7"	Input Level
31	Spring	2 Spring Splash	Input Level
32	Spring	2 Spring 14" 1 Sec	Input Level
33	Spring	2 Spring 14" 2 Sec	Input Level
34	Spring	3 Spring 14" 1 Sec	Input Level
35	Spring	3 Spring 14" 2 Sec	Input Level
36	Spring	3 Spring 14" 3 Sec	Input Level
37	Spring	3 Spring Splash	Input Level
38	Spring	Rattle and Boing	Input Level
40	Gated	100 ms Flat	Input Level
41	Gated	200 ms Flat	Input Level
42	Gated	400 ms Flat	Input Level
43	Gated	600 ms Flat	Input Level
44	Reverse	200 ms Decaying	Input Level
45	Reverse	400 ms Decaying	Input Level
46	Reverse	200 ms Reversed	Input Level
47	Reverse	400 ms Reversed	Input Level
48	Reverse	600 ms reversed	Input Level
50	Volume	Volume Pedal	Volume