

DigiTech
The Power to Create



Chorus CF-7 Factory™

Owner's Manual

DECLARATION OF CONFORMITY

Manufacturer's Name: DigiTech®
Manufacturer's Address: 8760 S. Sandy Parkway
Sandy, Utah 84070, U.S.A.

declares that the product:

Product name: CF 7
Product option: all (requires Class II power adapter that conforms to the requirements of EN60065, EN60742, or equivalent.)

conforms to the following Product Specifications:

Safety	IEC 60065 (1998)
EMC	EN 55013 (1990)
	EN 55020 (1991)

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC as amended by Directive 93/68/EEC.

Vice-President of Engineering - MI
8760 S. Sandy Parkway
Sandy, Utah 84070, U.S.A.
Date: September 11, 2006

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Harman Music Group
8760 South Sandy Parkway
Sandy, Utah, 84070 U.S.A.
Ph: (801) 566-8800
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Warning

For your protection, please read the following:

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Do not use this apparatus near water.
5. Clean only with dry cloth.
6. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
8. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
9. Unplug this apparatus during lightning storms or when unused for long periods of time.
10. No user serviceable parts inside. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
11. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
12. Refer to labels on the unit, including bottom cover, or other markings and pertinent information.

Congratulations, you are the proud owner of a DigiTech® CF-7 Chorus Factory™. The CF-7 offers the lush sounds from seven of the most popular chorus pedals ever designed into a single compact pedal.

Maybe you'll only use one model, on one setting; or maybe you'll explore all seven classic models to their full capacity, and use both the CF-7's outputs to connect to two amps for the full stereo experience. Either way, you'll have a full arsenal of rich chorus sounds!

You will definitely appreciate the sonic richness of each model, thanks to our custom AudioDNA2® DSP chip. The CF-7's models were meticulously designed to capture every nuance each pedal has to offer. And just like all X-Series™ pedals, the CF-7 features our Flexible Output Mode™, equipped with our acclaimed CIT™ cabinet modeling for whenever you need a guitar amp response when running the CF-7 directly into a mixer or recording device.

So plug in your CF-7 and get ready for takeoff. You've got a whole world of choruses and mod effects to discover.

Disclaimer: DigiTech, X-Series, CIT, Multi Chorus, Flexible Output Mode, AudioDNA2 and Chorus Factory are trademarks of Harman International Industries, Inc. Other product names modeled in this product are trademarks of their respective companies that do not endorse and are not associated or affiliated with DigiTech or Harman International Industries, Inc. They are trademarks of other manufacturers and were used merely to identify products whose sounds were reviewed in the creation of this product.

Included Items

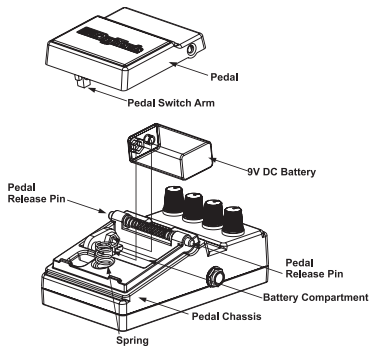
The DigiTech® Chorus Factory™ Pedal includes the following items:

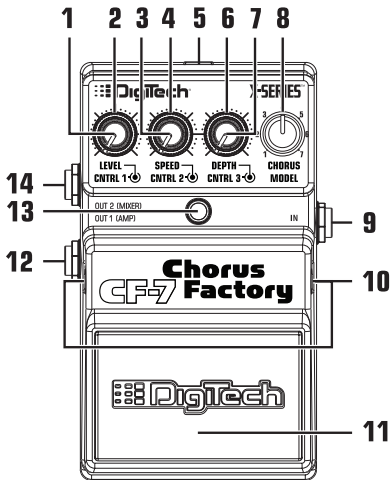
- **DigiTech® Chorus Factory™ Pedal**
- **This Owner's Manual**
- **DigiTech Warranty Card**
- **DigiTech Brochure**

Please make sure that all of these items have been included before you get started.

Battery Replacement Directions

1. Using the tip of a 1/4" guitar cable, push one of the release pins in on either side of the pedal, and remove the pedal from the pedal chassis.
2. Remove the battery from the battery compartment and disconnect the battery cable.
3. Connect a new battery to the battery compartment. Make sure the battery cable does not interfere with the spring or pedal switch arm.
4. Place one hole of the pedal over its corresponding pin.
5. Push the opposite pin in and lower the other side of the pedal into place over the depressed pin. Release the pin. When the pedal is properly fastened, both release pins are flush with the outer side of the pedal.





1. LEVEL (Tip)

Controls the effect output level or mix of the selected Model.

2. CNTRL 1 (Ring)

Model dependent. Refer to the **Chorus Model Control** Table on page 14 for more information.

3. SPEED (Tip)

Adjusts the modulation speed (or rate) of the selected Model.

4. CNTRL 2 (Ring)

Model dependent. Refer to the **Chorus Model Control** Table on page 14 for more information.

5. POWER SUPPLY JACK

Connect only the DigiTech® PS200R (9V DC) power supply to this jack.

6. CNTRL 3 (Ring)

Model dependent. Refer to the **Chorus Model Control** Table on page 14 for more information.

7. DEPTH (Tip)

Controls the effect depth of the selected Model.

8. CHORUS MODEL

Selects one of the following seven Chorus Models:

MODEL 1: DigiTech® Multi Chorus®

MODEL 2: Based on the Voodoo Lab™ Analog Chorus

MODEL 3: Based on the TC Electronic® Stereo Chorus Flanger

MODEL 4: Based on the Fulltone® Choralflange™

MODEL 5: Based on the Boss® CH-1 Super Chorus™

MODEL 6: Based on the Electro-Harmonix® Small Clone®

MODEL 7: Based on the Boss® CE-5 Chorus Ensemble™

Please refer to the **Model Descriptions** section on the following pages for more information regarding each model.

9. INPUT

Connect your instrument to this jack. Connecting a guitar cable to this jack supplies battery power even though the Indicator LED may not be lit. To prolong battery life, disconnect all cables when not in use.

10. PEDAL RELEASE PINS

These two pins are spring-loaded hinges that hold the pedal in place. Push these pins in to release the pedal from the pedal chassis exposing the battery compartment. Refer the Battery Replacement Diagram on page 3 for more information.

11. PEDAL

Press the pedal to turn the effect on and off.

12. OUT 1 (MONO)

Connect this output to a single guitar amplifier when only one amp is being used. Use unbalanced 1/4" instrument cables only.

13. INDICATOR LED

This LED indicates when the effect is turned on. If the LED does not light when the cables are connected, the battery needs to be replaced.

14. OUT 2

Connect this output to a second amplifier for true stereo chorusing. Stereo is the best way to get the most effective chorusing experience from the Chorus Factory™ pedal. Use unbalanced 1/4" instrument cables only.

MODEL DESCRIPTIONS

MODEL 1. DigiTech® Multi Chorus®

This setting models DigiTech®'s Multi Chorus® pedal. The first multi-voice (16 voices) chorus pedal ever!

LEVEL – Controls the effect output level. Turn clockwise for more effect, or counter-clockwise for less effect.

CNTRL 1 (EQ) – Adjusts the tone of the effect. Turn clockwise for brighter tone, or counter-clockwise for warmer tone.

SPEED – Controls the rate that the chorus modulates. Turn clockwise to increase the rate. Turn counter-clockwise to decrease the rate.

CNTRL 2 (Pre Delay) – Determines the amount of offset between the two signals that create the chorus effect. Turn clockwise for a looser chorus effect, or counter-clockwise for a tighter, more flanger-like effect.

DEPTH – Controls the depth of the chorus effect. Turn this knob clockwise to increase the depth for a thick chorus sound, or counter-clockwise to decrease the depth for a shallow, light chorus sound.

CNTRL 3 (Voice) – Controls the number of chorus voices used. At the knob's minimum position, only a single chorus voice is present. Turn clockwise for more voices. At the maximum position, 16 voices are heard interacting with one another (when using stereo mode).

Model 2. Voodoo Lab™ Analog Chorus

The Voodoo Lab™ Analog Chorus pedal has a distinctively organic tone that faithfully clones the 1976 Boss® CE-1.

LEVEL – Controls the effect output level. Turn clockwise for more effect, or counter-clockwise for less effect.

CNTRL 1 (EQ) – Adjusts the tone of the effect. Turn clockwise for brighter tone, or counter-clockwise for warmer tone.

SPEED – Controls the rate that the chorus modulates. Turn clockwise to increase the rate. Turn counter-clockwise to decrease the rate.

CNTRL 2 (Pre Delay) – Determines the amount of offset between the two signals that create the chorus effect. Turn clockwise for a looser chorus effect, or counter-clockwise for a tighter, more flanger-like effect.

DEPTH (Intensity) – Controls the intensity of the chorus effect. Turn the knob counter-clockwise for a subtle effect. Turn the knob clockwise for a richer, deeper, processed sound.

CNTRL 3 (Stereo Width) – Controls the perceived width of the stereo effect. Turn clockwise for a wider sound, or counter-clockwise for a narrower sound. This control only affects the sound when both outputs are used.

Model 3.TC Electronic® Stereo Chorus Flanger

The classic TC Electronic® Stereo Chorus Flanger is the choice of many pros and still remains known as a state-of-the-art unit with incredible dynamic range.

LEVEL (Intensity) – Controls the effect output level. Turn clockwise for more effect, or counter-clockwise for less effect.

CNTRL 1 (EQ) – Adjusts the tone of the effect. Turn clockwise for brighter tone, or counter-clockwise for softer, more diffuse tone.

SPEED – Controls the rate that the chorus modulates. Turn clockwise to increase the rate. Turn counter-clockwise to decrease the rate.

CNTRL 2 (Pre Delay) – Determines the amount of offset between the two signals that create the modulation effect. Turn clockwise for a looser chorus effect, or counter-clockwise for a tighter, more flanger-like effect.

DEPTH (Width) – Controls the intensity of the chorus effect. Turn the knob counter-clockwise for a subtle effect. Turn the knob clockwise for a richer, deeper, processed sound.

CNTRL 3 (PM/CH/FL) – Selects Pitch Modulation (turn all the way counter-clockwise), Chorus (12 o'clock position), or Flanger (turn all the way clockwise) Mode.

Model 4. Fulltone® Choralflange™

This setting models the Fulltone® Choralflange™, known as the ultimate analog modulation pedal: versatile, transparent, and flexible.

LEVEL (Mix) – Controls the balance of processed and dry signal. Turn clockwise for more processed signal, or counter-clockwise for more dry signal.

CNTRL 1 (Chorus/Flange) – Selects Chorus (turn all the way counter-clockwise) or Flanger (turn all the way clockwise) Mode.

SPEED (Rate) – Controls the rate that the chorus modulates. Turn clockwise to increase the rate. Turn counter-clockwise to decrease the rate.

CNTRL 2 (Delay) – Determines the amount of offset between the two signals that create the modulation effect. Turn clockwise for a looser chorus effect, or counter-clockwise for a tighter, more flanger-like effect.

DEPTH – Controls the intensity of the chorus effect. Turn the knob counter-clockwise for a subtle effect. Turn the knob clockwise for a richer, deeper, processed sound.

CNTRL 3 (Narrow/Wide) – Select Narrow (turn all the way counter-clockwise) to apply the effect to one octave of frequency range, or Wide (turn all the way clockwise) to apply the effect to two octaves of frequency range.

Model 5. Boss® CH-1 Super Chorus™

The Boss® CH-1 Super Chorus™ pedal is popular for its offering of frequency range with a versatile tonal control.

LEVEL – Controls the effect output level. Turn clockwise for more effect, or counter-clockwise for less effect.

CNTRL 1 (High EQ) – Adjusts the treble frequencies of the effect. Turn clockwise for more treble, or counter-clockwise for less treble.

SPEED (Rate) – Controls the rate that the chorus modulates. Turn clockwise to increase the rate. Turn counter-clockwise to decrease the rate.

CNTRL 2 (Pre Delay) – Determines the amount of offset between the two signals that create the modulation effect. Turn clockwise for a looser chorus effect, or counter-clockwise for a tighter, more flanger-like effect.

DEPTH – Controls the intensity of the chorus effect. Turn the knob counter-clockwise for a subtle effect. Turn the knob clockwise for a richer, deeper, processed sound.

CNTRL 3 (Low EQ) – Adjusts the bass frequencies of the effect. Turn clockwise for more bass, or counter-clockwise for less bass.

Model 6. Electro Harmonix® Small Clone®

This setting recreates the chorus effect of Electro Harmonix® Small Clone®. Its lush grunge tone still remains a favorite of pros for its multi dimensional personality.

LEVEL – Controls the effect output level. Turn clockwise for more effect, or counter-clockwise for less effect.

CNTRL 1 (EQ) – Adjusts the high frequencies of the effect. Turn clockwise for brighter tone, or counter-clockwise for softer, more diffuse tone.

SPEED (Rate) – Controls the rate that the chorus modulates. Turn clockwise to increase the rate. Turn counter-clockwise to decrease the rate.

CNTRL 2 (Pre Delay) – Determines the amount of offset between the two signals that create the modulation effect. Turn clockwise for a looser chorus effect, or counter-clockwise for a tighter, more flanger-like effect.

DEPTH – Controls the intensity of the chorus effect. Turn the knob counter-clockwise for a subtle effect. Turn the knob clockwise for a richer, deeper, processed sound.

CNTRL 3 (Stereo Width) – Controls the perceived width of the stereo effect. Turn clockwise for a wider sound, or counter-clockwise for a narrower sound. This control only affects the sound when both outputs are used.

Model 7. Boss® CE-5 Chorus Ensemble™

The CF-7 models the Boss® CE-5 Chorus Ensemble™ with its versatile coverage of frequency range and high/low cut filters.

LEVEL – Controls the effect output level. Turn clockwise for more effect, or counter-clockwise for less effect.

CNTRL 1 (High Filter) – Adjusts the treble frequencies of the effect. Turn clockwise for more treble, or counter-clockwise for less treble.

SPEED (Rate) – Controls the rate that the chorus modulates. Turn clockwise to increase the rate. Turn counter-clockwise to decrease the rate.

CNTRL 2 (Pre Delay) – Determines the amount of offset between the two signals that create the modulation effect. Turn clockwise for a stronger, more pronounced effect, or counter-clockwise for a tighter effect.

DEPTH – Controls the intensity of the chorus effect. Turn the knob counter-clockwise for a subtle effect. Turn the knob clockwise for a richer, deeper, processed sound.

CNTRL 3 (Low Filter) – Adjusts the bass frequencies of the effect. Turn clockwise for more bass, or counter-clockwise for less bass.

Chorus Model Control Table

	MODEL 1: DigiTech® Multi Chorus®	MODEL 2: Voodoo Lab™ Analog Chorus	MODEL 3: TC Electronic® Stereo Chorus Flanger™
LEVEL	Level	Level*	Intensity
CNTRL 1	EQ*	EQ*	EQ*
SPEED	Speed	Speed	Speed
CNTRL 2	Pre Delay*	Pre Delay*	Pre Delay*
DEPTH	Depth	Intensity	Width
CNTRL 3	Voice	Stereo Width*	PM/CH/FL
	More info on Page 7	More info on Page 8	More info on Page 9

* These additional controls are not present on the original pedals. These controls are found exclusively on the CF-7 Chorus Factory™.

MODEL 4: Fulltone® Choralflange™	MODEL 5: Boss® CH-1 Super Chorus™	MODEL 6: Electro Harmonix® Small Clone®	MODEL 7: Boss® CE-5 Chorus Ensemble™
Mix	Level	Level*	Level
Chorus/Flange	High EQ	EQ*	Hi Filter
Rate	Rate	Rate	Rate
Delay	Pre Delay*	Pre Delay*	Pre Delay*
Depth	Depth	Depth*	Depth
Narrow/Wide	Low EQ	Stereo Width	Low Filter
More info on Page 10	More info on Page 11	More info on Page 12	More info on Page 13

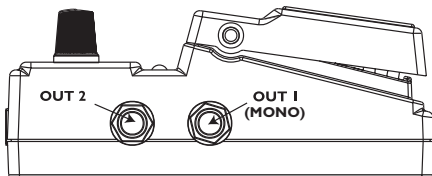
Flexible Output Mode™

The CF-7 has two Flexible Output Modes™:

Mono/Stereo Amp - A mono signal (**OUT 1** only) sent to one guitar amp, or a stereo signal (**OUT 1** and **OUT 2**) sent to two amplifiers.

Mono/Stereo Mixer - A mono signal (**OUT 1** only) sent to a single mixer channel, or a stereo signal (**OUT 1** and **OUT 2**) sent to two channels of a mixer.

When the Chorus Factory™ is shipped from the factory, the default mode is **Mono/Stereo Amp**.



Cabinet Modeling (CIT™)

The CF-7 has built-in CIT™ cabinet modeling that can be enabled. This is a useful tool when running a distortion pedal into the CF-7 and then running direct into a mixer or recorder. This creates a guitar-through-an-amplifier sound without having to use a guitar amp.

To Enable CIT™ Cabinet Modeling:

Press the pedal down and apply power (connect a guitar cable to the CF-7 input or connect a PS200R power supply to the power supply jack).

To Disable CIT Cabinet Modeling:

Power down the CF-7 (disconnect guitar cable from the Input jack, or disconnect the PS200R power supply).

Note that CIT cabinet modeling is disabled each time you turn off the CF-7. To use CIT cabinet modeling, it must be enabled each time you apply power to the CF-7.

WARRANTY: We at **DigiTech®** are proud of our products and back up each one with the following warranty:

1. The warranty registration card must be mailed within ten days after purchase date to validate this warranty.
2. DigiTech warrants this product, when used solely within the U.S., to be free from defects in materials and workmanship under normal use and service.
3. DigiTech liability under this warranty is limited to repairing or replacing defective materials that show evidence of defect, provided the product is returned to DigiTech WITH RETURN AUTHORIZATION, where all parts and labor will be covered up to a period of **one** year (this warranty is extended to a period of **six** years when the product has been properly registered by mail or through our website). A Return Authorization number may be obtained from DigiTech by telephone. The company shall not be liable for any consequential damage as a result of the product's use in any circuit or assembly.
4. Proof-of-purchase is considered to be the burden of the consumer.
5. DigiTech reserves the right to make changes in design, or make additions to, or improvements upon this product without incurring any obligation to install the same on products previously manufactured.
6. The consumer forfeits the benefits of this warranty if the product's main assembly is opened and tampered with by anyone other than a certified DigiTech technician or, if the product is used with AC voltages outside of the range suggested by the manufacturer.
7. The foregoing is in lieu of all other warranties, expressed or implied, and DigiTech neither assumes nor authorizes any person to assume any obligation or liability in connection with the sale of this product. In no event shall DigiTech or its dealers be liable for special or consequential damages or from any delay in the performance of this warranty due to causes beyond their control.

NOTE: The information contained in this manual is subject to change at any time without notification. Some information contained in this manual may also be inaccurate due to undocumented changes in the product or operating system since this version of the manual was completed. The information contained in this version of the owner's manual supersedes all previous versions.

Specifications:

- Controls - LEVEL/CNTRL 1, SPEED/CNTRL 2, DEPTH/CNTRL 3, CHORUS MODEL, On/Off Pedal
- Jacks - INPUT, OUT 1 (MONO), OUT 2
- Input Impedance - 1 MOhms
- Output Impedance - 100 Ohms
- Power Supply - (Optional) DigiTech PS200R or 9V Alkaline Dry Battery
- Power Consumption - 4.8 Watts (w/optional PS200R power supply)
- Battery Life - Approximately 4 hours (with continuous usage)
- Dimensions - 4 15/16"(L) x 3 1/8"(W) x 2 1/8"(H)
- Weight - 2 lbs.
- (Optional) Power Supply
 - PS200R - 100 (100V ~ 50/60Hz)
 - PS200R - 120 (120V ~ 60Hz)
 - PS200R - 230 (230V ~ 50Hz)
 - PS200R - 240 (240V ~ 60Hz)

DigiTech®
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