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Book Descriptions:

boss ce-20 manual

No part of this publication may Before using this unit, carefully read the sections entitled "USING THE UNIT SAFELY" and "IMPORTANT NOTES" separate sheet. These sections provide important information concerning the proper operation of the unit. The life of these batteries may be limited, however, since their primary purpose was to enable testing.If using some other make of connection cable, please note the following precautions. When the CE20 is connected to a mixer's or multitrack recorder's sends or returns, you can then elect to output only the chorus sound, with the direct sound turned off. When effects are off, the sound coming in through the INPUT jack is output unchanged. Use the most appropriate setting for your particular application. At the factory settings, Pedal mode is set to "1." When changing the Pedal mode settings, refer to p. Also set the knobs as shown in the illustration. The MEMORY indicator and the indicator for the currently selected memory flash, and the CE20 is put into write standby. fig.19a 3. Press the SELECT button to select the memory number to which you want to store the sound. The MEMORY indicator and the indicator for the currently selected MEMORY number start to flash, and the CE20 is put into write standby. fig.22 Blink Write standby. At the center position, this is flat no boost or cut; the LOW knob has no effect. HIGH Knob Adjusts the chorus sound's upper range. At the center position, this is flat no boost or cut;. A perfect sound suitable for any kind of instrument. Models the Roland DIMENSION D SDD320. Provides a clear, crisp chorus sound.When at "MANUAL". Use the following steps to turn the direct sound on and off. When using the CE20 in dimly lit surroundings, you can confirm memory numbers more easily by using the Lighting Pattern 2 setting. Is the guitar connected correctly to the INPUT R MONO jack. This helps conserve the batteries.<http://euro-logist.ru/userfiles/construction-supervision-manual-pdf.xml>

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FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT
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Chorus Ensemble User Manual. RSS. New "Brilliance" and "Ambience" knobs offer unprecedented realtime control over the chorus tonemaking the CE20 a pedal no guitarist should be without. Stort set I pn stand og inklusiv stromforsyning. Fast pris. Kan sendes med GLS for 79, 650 kr. I perfekt stand. Fast

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Kan sendes med GLS for 39, 800 kr. Se slgers andre annoncer 105. Please try again. Please try your search again later. You can edit your question or post anyway. This programmable chorus pedal not only models classics like the CE1 and SDD320, but creates entirely new Effects including chorus for bass and acoustic guitar. Thats why the CE20 includes six chorus modes covering classic sounds from the CE1 and SDD320 to modern chorus effects. Theres never been a sound like it! Amazon calculates a products star ratings based on a machine learned model instead of a raw data average. The model takes into account factors including the age of a rating, whether the ratings are from verified purchasers and factors that establish reviewer trustworthiness. Sorry, we failed to record your vote. Please try again Sorry, we failed to record your vote. Please try again Otherwise Im happy with it. Sorry, we failed to record your vote. Please try again. Let us know! Please contact us for the latest information or to see if we have a BStock or an alternative available. This programmable chorus pedal not only models classics like the CE1 and SDD320, but creates entirely new Effects including chorus for bass and acoustic guitar. You can unsubscribe at any time. See our Privacy Policy for more details. Weve sent you a verification email, so the latest updates, news and exclusive offers are just a click away! You can unsubscribe at any time. See our Privacy Policy for more details. Stay tuned for news and updates coming your way! You can unsubscribe at any time. See our Privacy Policy for more details. Stay tuned for news and updates coming your way. Capable of retaining up to four user presets for summoning your favorite chorus sounds on the fly, this pedal brings a more lush ambience to dream pop, shoegaze, or postrock.

Gallery Product Specs Brand Boss Model CE20 Chorus Ensemble Finish Blue Year 2005 2019 Made In Taiwan Show More Similar Products From the Price Guide Sell Yours Please check the fields highlighted in red. Seller MusicIndia 3.6 10 Days Replacement Policy. Description The CE20 Chorus Ensemble is the culmination of over 25 years of BOSS chorus experience. Post your question Safe and Secure Payments. Easy returns. 100% Authentic products. This may happen as a result of the following Javascript is disabled or blocked by an extension ad blockers for example Your browser does not support cookies Please make sure that Javascript and cookies are enabled on your browser and that you are not blocking them from loading. Click here for Thread For a better experience, please enable JavaScript in your browser before proceeding. It may not display this or other websites correctly. You should upgrade or use an alternative browser. Each channel is modulated differently. This pedal is so good it is hard to believe it is all analog. It is so much better than anything else I have owned so far. Starting from Cs9 vintage no more volume jump, no more tone sucking, and better modulation. Against mxr234 analog chorus, which is really good, this is stereo and offers always awesome sounds. Against Cs9 Pro, which requires careful settings, this is missing mix but offers a much better stereo image and a ten times better sounds. Against digitals this is a winner easily the analog sound is the real thing and even the splendid neunaber exachorus cannot beat it. Digitech cr7, Tc corona. The missing mix is not a problem on ce2w because this pedal does not fall into flangering when depth is lowered to minimise the effect. Something happening on digital normally. Ce2 is great and ce1 mode is so lush and watery. Vibrato is a chorusvibrato really and it does help for some times. But a real vibrato like Tc shaker is just better. Waza crafting is outstanding.

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The screw for holding battery compartment is in metal not in plastic. It sounds great and at least in stereo there is no volume jump while engaging the effect. No clipping like on cs9 and mn3207 based

choruses. Beautiful sounds from light to watery modulations with an outstanding stereo separation. This is a winner for me. I perfectly know since 30 years what is the fake stereo by reversing phases. This is not the case. Modulation is different on the two channels. I have no idea how they made it. But your assertion about fake stereo is not correct. I am reporting what I can listen from two studio speakers using the pedal. I can make a recording in stereo and show. I can make a recording in stereo and show. Same as I did for the Hall Of fame wet reverb a few months ago. I am too curious to see what happens when the two tracks are mixed down. If they are reversed phase there will be a deep decrease of volume. Perhaps they are not 180 phased, we shall see. Not even analogman does that see what they wrote about the cost of a real analog true stereo . So we are comparing oranges to oranges. Its probably the best chorus on the market, but its not true stereo. It shouldnt be either. This is the way you do stereo on a chorus pedal. If you need true stereo, wait for the DC2w. There are 2 chips inside. You can run them in or out of phase. My favorite ! If you need true stereo, wait for the DC2w. Maybe Boss has changed specs. If I set full speed it affects both channels, thats sure. I do a recording tonight. Maybe Boss has changed specs. I do a recording tonight. I am discussing the new Boss CE2W Waza. It is stereo. Thats all I can say. If you dont believe it, listen to the recording I just did for you. Initially I set speed and rate to full CW. So you can clearly listen to the stereo effect. If you need true stereo, wait for the DC2w. There is none. There is no dry signal outcoming. Its probably the best chorus on the market, but its not true stereo.

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This is the way you do stereo on a chorus pedal. Are we talking about the same pedal I bought it yesterday. It is stereo, there is no trace of Dry signal here. I just recorded the demo to prove it. Did they change the product Are we talking about the same pedal I bought it yesterday. Did they change the product If thats the case, the dry signal is there at the mixer section in the pedal, where the delayed signal is blended with the dry signal. If there were no dry signal, youd have a vibrato. The CE1 was released 1976 and contained the exact same circuit as the Roland Jazz Chorus JC120 Amp. The CE2 builds on the legacy of the CE1 but isn't identical. The middle region is boosted in the CE2 compared to the CE1. According to the design engineers this may be because the CE1 had a lower input impedance. The pedal was however still produced and sold at least out 1990. The label changed from black to green 1984. The CE2 was produced in Japan up until 1988 when production moved to Taiwan. The font used on the "Chorus" label is wider on some versions. This results in the C in CE2 to be located under the r in Chorus on the earliest models while it later ended up under the u. The circuit has gone through some minor changes but nothing significant. All MIJ CE2s are designed around the MN3007 BBD using MN3101 clock driver. Even if chocolate chip is on your mind, our cookies make an important contribution to a great shopping experience. They help us to show you relevant offers, remember your settings to ease navigation on our website and alert us when the website is slow or unstable. You can view and manage further details and options here. Always with customised added value for musicians. Close Service Contact us Help Standard Delivery Times 26 Add to Basket 3% bought Thomann Power Supply 312V DC 600mA 8.90 2% bought Roland PSB230 EU 27 2% bought Thomann Power Supply Uni 312V DC 13.60 1% bought Zoom AD16E Power Supply 18.30 Our most popular Misc.

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rating. I had to use it to believe that a good power supply will get rid of all unwanted noise in the signal chain, compared to a cheaper one. I actually have 4 of them, gathered throughout the years, all still working flawlessly, and use all four plugged in a power strip under my Pedalboard Classic JR giving me a total of 2000mA and they power 89 pedals mostly analog but also a couple of digital ones without any problems. No ground loops, no unwanted noise, no need for a professional power supply such a cioks yet. Works really well and the build quality is top notch. I Have used them both live and in studio. One minor complaint is that the cable is really really long which is useful when youre trying to reach a socket thats far away but for me that I use them with a power strip under my pedals it can get a bit cluttered under my pedalboard when I have the four of them together. Send report Total quality A really reliable power supply YossMarr, 11.03.2020 I originally bought this for my Dunlop Crybaby Classic GCB95F, because I wanted to invest a little more in the power supply in safetys sake.

Though it didnt fit through the hole for the power supply on the pedal, Ive found another use for it and am happy to have bought it, because it looks and feels like a reliable and durable piece of technique and theres nothing cheap about it, dont you worry its worth it. It has a safety measure in an extra housing so that if something went wrong the pedalpedalboard would be safe. Whatsmore it has a fancy blue light that shows whether electricity flows through it. In conclusion, its a really nice power supply worth the investment. Send report Total quality Good Ac adaptor MathiasD90, 24.04.2020 Great, not much to say. Send report Total quality Decent stuff Too Ill, 27.07.2020 No indecent behaviour here. Does what it needs to do. No need to blow its horn. Provided it had one in the first place. Send report Read all 866 reviews Rate product Standard Delivery Times Power Supplies Power Supplies Go to product group Guitar Effect Power Supplies Go to product group Power Supplies PSU Go to product group Accessories Show manufacturer details for Boss Boss Accessories at a glance Printer friendly version of this page Compare Added Remove. Please try again. In order to navigate out of this carousel, please use your heading shortcut key to navigate to the next or previous heading. Register a free business account Exclusive access to cleaning, safety, and health supplies. Create a free business account to purchase Please try your search again later. You can edit your question or post anyway. Amazon calculates a product's star ratings using a machine learned model instead of a raw data average. The machine learned model takes into account factors including the age of a review, helpfulness votes by customers and whether the reviews are from verified purchases. Sorry, we failed to record your vote. The CE2 builds on the legacy of the CE1 with reduced features mono output instead of stereo, no vibrato mode, no integrated power supply, no level and no intensity controls.

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The CE2 has higher input impedance and boosted mid frequencies, both arrangements very suitable for electric guitars. Roland stopped marketing the CE2 in 1982, however still produced until 1990. There are basically 3 versions of the pedal Some early standalone stompboxes like VibraChorus and UniVibe by ShinEi were released in 1960s, creating some degree of phase shifting or chorus modulation. The CE2 follows the same tonal response. The usual delay times are around 5 to 50ms and LFO oscillating frequencies are up to 20Hz. CE2 uses triangle LFO waveforms. There are several possibilities Hearing both signals together the chorus effect is created. The input and output circuits use the dual opamp uPC4558C IC, while the LFO is implemented with the help of a TL022LP opamp. Some additional active filtering is applied using SallenKey transistor stages. The effect response is commanded using two controls The top of the board contains all the pads to attach the cables to be connected to the jack connectors, potentiometers, and the footswitch. It also carries other benefits like the number of components used in the pedal and using a light indicator and a poweron LED at the same time. The JFET Bypass Switch enables two possible toggle configurations

The VR 3 potentiometer is able to finely trim the 4.5 voltage sometimes due to the loading of all stages, the 4.5 voltage might suffer some offset, the BBDs are sensitive to the bias, adjusting VR3 will bring maximum clean headroom. The 9V regulated line will bring the supply for the Bucket Brigade Stage, rejecting highfrequency harmonics which are especially harmful in BBDs signal processing due to the clocking noise of the MN3101 clock driver. This pedal was originally designed for an external 12V ACA supply adapter. The series resistor R53 and diode D5 between the minus input on the power jack and ground are used to reduce the internal voltage supply.

The voltage drop over the resistor and diode will underpower the pedal making the poweron LED glow faintly. One easy solution is to use a daisy chain cable together with another standard pedal. The link between the two pedals will short the resistordiode circuit and the pedal will receive full power. It also separates the guitar from any pedal DC potential, protecting the pickups in case of circuit failure. But applying the same filtering to the delay signal, the output signal will reduce any hiss acquired via the delay path. Boss CE2 uses the opamp inverting architecture. It is also implemented over the 4558 dual opamps and designed to attenuate the magnitude of the high frequencies with respect to the midlow frequencies. This filter takes the unnatural sounding preemphasized audio and turns it back into its original response. These are generated at integer multiples of the sample rate. The ideal filter specification is the same as that for the antialiasing filter. In this way, the input signal is bandlimited to prevent aliasing. The cutoff frequency can be calculated as The output signal must be bandlimited, to remove the clock noise and prevent aliasing meaning Fourier coefficients being reconstructed as lowfrequency waves, not as higher frequency aliases. The cutoff frequency can be calculated as After the delay stage, slightly more bass pass through the circuit. At the same time, a LowFrequency Oscillator LFO is needed to drive the MN3101 in order to generate the variable delay time which is the gist of the chorus effect. It is used to discharge the C 22 47pF timing capacitor, which is charged through the R 38 150K resistor. Indeed, Q 5 together with the MN3101 will oscillate by itself at a constant frequency without Q 4 and its associated components. The cycle repeats at an ultrasonic rate. Immediately after C 22 discharge, the diode D1 is needed to isolate the output of Q4 transistor.

As the LFO cycles, the delay time goes up and down and therefore the delayed audio pitch slightly shifts up and down. Some ticking can be mixed with the audio when the LFO produces the rising or falling edge of a square wave and there is a very sudden surge in the current. This simple circuit provides a variable frequency triangular waveform whose amplitude is also variable. The oscillation frequency can be calculated following the formula of the Triangle Oscillator by Ron Mancini The action of VR2 will modify the steepness of the ramp and therefore the amplitude or depth at a fixed frequency. Boss CE2 Information by BossArea Chorus Effect Explanation by TestTone Chorus guitar effects by Hobby Hour Tonepad CE2 Cloning Project Triangular Wave Generators by FreeCircuits 3rd Order SallenKey Filter with one OpAmp by EDN. Shelving Filters by Linkwitzlab. Boss ACA and PSA adaptors by StinkFoot. PreEmphasis and DeEmphasis filters in DIYStompBoxes. BOSS CE2 Service Notes pdf. 2SC732TM Transistor pdf. Trademarks, brand names and logos are the property of their respective owners. You need JavaScript enabled to view it. Code licensed under MIT License. Hydraulic flows based on 4.48 C.I.R. motor requirements at 2600 psig average. While there are standard safety rules, each situation has its own peculiarities that cannot always be covered by rules. Therefore with your experience and common sense, you are in a position to ensure your safety. Lack of attention to safety can result in accidents, personal injury, reduction of efficiency and worst of all Loss of Life. Watch for safety hazards. Correct them promptly. Use the following safety precautions as a general guide to safe operation Do not attempt to remove any compressor parts without first relieving the entire system of pressure. Do not attempt to service any part while machine is operating. Periodically check all safety devices for proper operation. Do not play with compressed air.

Pressurized air can cause serious injury to personnel. Exercise cleanliness during maintenance and when making repairs. Do not install safety devices other than authorized BOSS INDUSTRIES replacement devices. Close all openings and replace all covers and guards before operating compressor unit. Tools, rags, or loose parts must not be left on the compressor or drive parts. Do not use flammable solvents for cleaning parts. Keep combustibles out of and away from the Compressor and any associated enclosures. The owner, lessor, or operator of the Compressor are hereby notified and forewarned that any failure to observe these safety precautions may result in damage or injury. These decals must be affixed to the vehicle after it has been painted, trimmed, and undercoat, etc. The decals shall be placed so as to be clearly visible to the user and service personnel. Figures 1 through 6. Figure 1. To be placed on visor or dash near startup procedure decal. Sometimes referred to as the separator element. CFM Refers to the volume of compressed air being produced expressed as cubic feet of air per minute. LOAD CONTROLLER Sometimes referred to as the engine speed control. OIL SUMP The first stage of oil separation from compressed air. Also serves as reservoir area for compressor lubricant and sometimes referred to as the receiver tank. PSI Refers to the operating pressure the system is set up at, expressed as pounds per square inch. SAFETY VALVE A valve located on the oil sump which opens in case of excessive pressure. Sometimes referred to as the popoff or pressure relief valve. SHUTDOWN SWITCH Works in conjunction with a temperature and pressure switchgauges, sending a signal to stop the compressor power source in cases of high temperature or pressure. SIDE MOUNT PTO Power take off gearbox that bolts to the side of the transmission. The PTO input gear with one of the gears in the vehicle's transmission.

The rotation developed by the engine drives the transmission which turns the PTO gear box and rotates the PTO output shaft, driving the compressor. ADAPTER GEAR ASSEMBLY SIDE MOUNT PTO The adapter gear assembly and the side mount PTO are assembled to the side of the transmission. Typically a PTO box installed on a manual transmission will require an adapter gear assembly in order to obtain the proper engine rotation required by the compressor. Most automatic transmissions utilize engine rotation PTO's. Consult Boss Industries Inc. Components include a housing stator, two screws rotors, bearings, and bearing supports. Power from the engine is transferred to the male rotor through a drive shaft and gears in the gear housing. The female rotor is driven by the male rotor. There are four lobes on the male rotor while the female rotor has five roots. PRINCIPLES OF OPERATION In operation, two helical grooved rotors mesh to compress air. Inlet air is trapped as the male lobes roll down the female grooves, pushing trapped air along, compressing it until it reaches the discharge port in the end of the stator and delivers smoothflowing, pulsefree air to the receiver. During the compression cycle, oil is injected into the compressor and serves these purposes 1. Lubricates the rotating parts and bearings. 2. Serves as a cooling agent for the compressed air. 3. Seals the running clearances. LUBRICATION SYSTEM Oil from the compressor oil sump, at compressor discharge pressure, is directed through the oil filter, cooling system, and to the side of the compressor stator, where it is injected into the compressor. At the same time oil is directed internally to the bearings and shaft seal of the compressor. The oil laden air is then discharged back into the sump. OIL SUMP Compressed, oil laden air enters the sump from the compressor. As the oil laden air enters the sump, most of the oil is separated from the air as it passes through a series of baffles and defusion plates.

The oil accumulates at the bottom of the sump for recirculation. This valve acts as a backup to protect the system from excessive pressure that might result from a malfunction. When air is demanded at the service line, it passes through the coalescer which efficiently provides the final stage of oil separation. OIL RETURN LINE The oil that is removed by the coalescer accumulates at the bottom of the can and is returned through an oil return line leading to the compressor. MINIMUM PRESSURE ORIFICE The minimum pressure orifice is located at the outlet of the coalescer head and serves to maintain a minimum discharge pressure of 65 PSIG in operation, which is required to assure adequate compressor lubrication pressure. OIL FILTER The compressor oil

filter is the fullflow replaceable element type and has a safety bypass built into it. **COMPRESSOR COOLING SYSTEM STANDARD** The compressor cooling system consists of an oil cooler remote mounted aerodynamically designed cooling pressure or a cooler mounted in front of the truck's radiator. Oil temperature is controlled by a thermal switch or a valve located down stream of the oil filter. It is designed to be mounted inside the cab or in a protected area outside of the cab. Operate compressor within the discharge pressure limits as indicated in specifications section. **HOURMETER** The hourmeter records the total number of operating hours. It serves as a guide in following the recommended inspection and maintenance schedule. The hourmeter will only run when there is pressure in the system. The switchgauge ensures safety shutdown in case of excessive operating temperatures, preventing compressor damage. **ELECTRICAL AND SAFETY SYSTEM** The BOSS compressor's standard electrical system consists of a gauge panel; a remote mount 12 VDC fan package with fan switch and relay assembly for standard cooling system only; and a resettable normally closed shutdown switch.

These components are integrated together to provide a safety shutdown system that is activated when extreme high temperature or pressure conditions are present. When the temperature or pressure exceeds the maximum set parameter of the respective switchgauge a signal is sent to "trip" the shutdown switch from normally closed to open. This signal will then shut off the engine in vehicles equipped with a CABLE PTO or disengage the PTO in "HOT SHIFT" PTO applications. **ELECTRONIC ENGINE INTERFACE** Electronic engine interface for the compressor speed control incorporates several BOSS supplied electrical components that are chassis specific. A chassis specific wiring diagram and electrical components are supplied per the vehicle application data at the time of the order. It is located at the downstream side of the coalescer head and will automatically bleed the sump to zero pressure when the compressor is disengaged. Blow down time interval takes between 30 to 60 seconds. **CONTROL SYSTEM** The prime component of the compressor control system is the compressor inlet valve. The control system is designed to match air supply to air demand and to prevent excessive discharge pressure when compressor is at idle. Control of air delivery is accomplished by the inlet valve regulation and modulation as directed by the discharge pressure regulator. **DISCHARGE PRESSURE REGULATOR VALVE** This valve, located on the coalescer head is used to set the desired discharge pressure within the operating pressure range. Turning the regulator screw clockwise increases the working pressure, a counterclockwise movement of the screw reduces the working pressure. This system has a maximum operating pressure of 175 psi. **NOTE** Most air tools operating pressure range is between 90 and 125 psi. Operating above the tools recommended pressures will decrease the life of the tool. Higher operating pressure can also over torque nut and bolts fatiguing the fastener and mating parts.

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