DIGITAL PERCUSSION



DD-20 DD-205



Owner's Manual

SPECIAL MESSAGE SECTION

This product utilizes batteries or an external power supply (adapter). DO NOT connect this product to any power supply or adapter other than one described in the manual, on the name plate, or specifically recommended by Yamaha.

This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product.

SPECIFICATIONS SUBJECT TO CHANGE:

The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

NOTICE:

Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

ENVIRONMENTAL ISSUES:

Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Battery Notice:

This product MAY contain a small non-rechargeable battery which (if

applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

When installing batteries, do not mix batteries with new, or with batteries of a different type. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture.

Warning:

Do not attempt to disassemble, or incinerate any battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries in your area for battery disposal information.

Disposal Notice:

Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact Yamaha directly.

NAME PLATE LOCATION:

The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model DD-20/DD-20S

Serial No.

Purchase Date

92-BP (bottom)

PLEASE KEEP THIS MANUAL

FCC INFORMATION (U.S.A.)

- IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!
 This product, when installed as indicated in the instructions
 - This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
- 2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- 3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance

with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

(class B)

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

OBSERVERA!

Apparaten kopplas inte ur växelströmskällan (nätet) sá länge som den ar ansluten till vägguttaget, även om själva apparaten har stängts av.

ADVARSEL: Netspæendingen til dette apparat er IKKE afbrudt, sálæenge netledningen siddr i en stikkontakt, som er t endt — ogsá selvom der or slukket pá apparatets afbryder.

VAROITUS: Laitteen toisiopiiriin kytketty käyttökytkin ei irroita koko laitetta verkosta.

^{*} This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep these precautions in a safe place for future reference.



WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

- Do not open the instrument or attempt to disassemble the internal parts or modify them in any
 way. The instrument contains no user-serviceable parts. If it should appear to be malfunctioning,
 discontinue use immediately and have it inspected by qualified Yamaha service personnel.
- Do not expose the instrument to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- If the AC adaptor cord or plug becomes frayed or damaged, or if there is a sudden loss of sound
 during use of the instrument, or if any unusual smells or smoke should appear to be caused by
 it, immediately turn off the power switch, disconnect the adaptor plug from the outlet, and have
 the instrument inspected by qualified Yamaha service personnel.
- Use the specified adaptor (PA-3B, PA-3C or an equivalent recommended by Yamaha) only.
 Using the wrong adaptor can result in damage to the instrument or overheating.
- Before cleaning the instrument, always remove the electric plug from the outlet. Never insert or remove an electric plug with wet hands.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on
 it.
- Do not put burning items, such as candles, on the unit.
 A burning item may fall over and cause a fire.



CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

- Do not place the AC adaptor cord near heat sources such as heaters or radiators, and do not
 excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.
- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord.
- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can
 result in lower sound quality, or possibly cause overheating in the outlet.
- Unplug the AC power adaptor when not using the instrument, or during electrical storms
- Always make sure all batteries are inserted in conformity with the +/- polarity markings. Failure
 to do so might result in overheating, fire, or battery fluid leakage.
- Always replace all batteries at the same time. Do not use new batteries together with old ones.
 Also, do not mix battery types, such as alkaline batteries with manganese batteries, or batteries from different makers, or different types of batteries from the same maker, since this can cause overheating, fire, or battery fluid leakage.
- · Do not dispose of batteries in fire.
- Do not attempt to recharge batteries that are not intended to be charged.
- When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument to prevent possible leakage of the battery fluid.
- · Keep batteries away from children.
- If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns.
- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum. Also, be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.
- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not use the instrument near other electrical products such as televisions, radios, or speakers, since this might cause interference which can affect proper operation of the other products.
- . Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected adaptor and other cables.

When cleaning the instrument, use a soft, dry cloth. Do not use paint thinners, solvents, cleaning
fluids, or chemical-impregnated wiping cloths. Also, do not place vinyl, plastic or rubber objects
on the instrument, since this might discolor the panel or keyboard.

- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Do not operate the instrument for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

Always turn the power off when the instrument is not in use

Make sure to discard used batteries according to local regulations.

The illustrations as shown in this owner's manual are for instructional purposes only, and may be different from the ones on your instrument.

Any mention or reference to the DD-20 in this manual also applies to the model DD-20S.

Entsorgung leerer Batterien (nur innerhalb Deutschlands)

Leisten Sie einen Beitrag zum Umweltschutz. Verbrauchte Batterien oder Akkumulatoren dürfen nicht in den Hausmüll. Sie können bei einer Sammelstelle für Altbatterien bzw. Sondermüll abgegeben werden. Informieren Sie sich bei Ihrer Kommune.

(battery)

Welcome

Congratulations! You are now the proud owner of a powerful new musical instrument capable of inspiring and fueling your musical creativity. This is not just another digital percussion instrument. The DD-20 is the result of passion, vision, and commitment from people who want you to enjoy yourself every time you play it. We're sure you'll agree as you discover the limitless possibilities of your new digital percussion instrument! Keep this manual in a safe place for future reference.

Contents

The DD-20 At a Glance	6
Setting Up	
Playing the Demo	
Percussion Set	
Pad Assign	
Style	9
Tempo	10
Tap Start	10
Auto Roll	
Sound Effect	11
Troubleshooting	12
Specifications	
Percussion Set List	
Voice List	

Taking Care of the DD-20

Avoid Heat

Avoid placing the DD-20 near windows, heaters or other areas subject to excessive heat or in a car exposed to direct sunlight.

Avoid Dust and Moisture

Avoid locations where the DD-20 is likely to be exposed to excessive dust or moisture.

Avoid Physical Shocks

Do not subject the DD-20 to strong physical shocks and avoid placing heavy objects on it.

Avoid Television and Radio Interference

The DD-20 contains digital circuitry and may cause interference if it is placed too close to radio or television receivers. If interference occurs, move the DD-20 farther away from the affected receiver(s).

Cleaning the DD-20

Use only a soft, dry or slightly damp cloth to clean the DD-20. Never use solvents or thinners to clean the instrument.

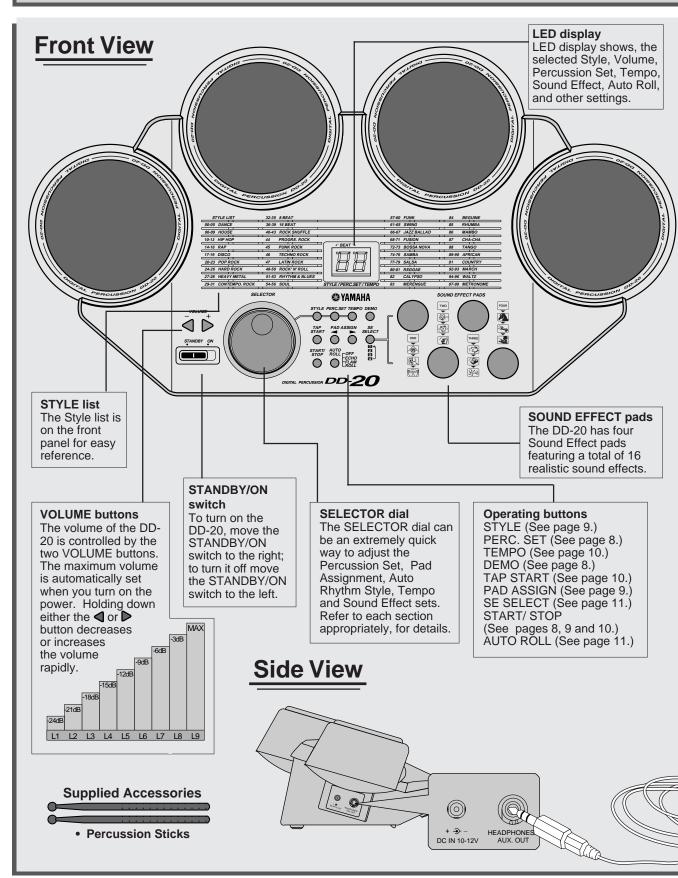
Avoid Power Cord Damage

Do not place the DD-20 where somebody is liable to step on, trip over or crush the power cord or any other connecting cables.

Making Connections

Before making any connections, turn off the power of the DD-20 and any other equipment. Lower the volume on all audio equipment to the minimum level when turning the power on.

The DD-20 At a Glance



Percussion Pads

Striking two percussion pads at the same time produces simultaneous sounds according to the voices assigned to the respective pads.

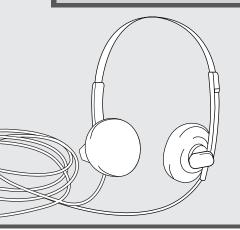
Sensitivity

The DD-20's main percussion pads feature touch sensors so that they respond just like acoustic percussion instruments. Striking the percussion pads with different force results in relatively loud or soft sounds accordingly. Be careful not to strike the pads with excessive force as this may seriously damage the percussion pad sensors.

Headphones

You can use a standard pair of stereo headphones, such as Yamaha's HPE-3 or HPE-150, with the DD-20 for private practice.

To connect headphones insert the headphone plug into the HEADPHONES/AUX. OUT jack. The DD-20's internal speakers will switch off automatically when you plug in a pair of headphones.



Setting Up

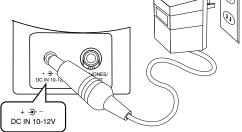
Supplying Power

The DD-20 will operate on either an optional power adaptor or optional batteries.

▼ To connect a power adaptor:

1. Connect only the Yamaha PA-3B or PA-3C power adaptor to the DC IN jack of the DD-20.

2. Plug the power adaptor into an AC power outlet.



⚠ WARNING

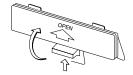
Use ONLY the Yamaha PA-3B, PA-3C AC Power Adaptor (or other adaptor specifically recommended by Yamaha) to power your instrument from the AC mains. The use of other adaptors may result in irreparable damage to both the adaptor and the DD-20.

⚠ CAUTION

Unplug the AC Power Adaptor when not using the DD-20, or during electrical storms.

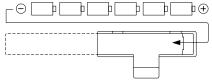
▼ To insert batteries:

1. Remove the battery compartment cover located on the bottom of the DD-20.



2. Insert six (6) 1.5 V "AA" (R-6, SUM-3) or equivalent batteries into the battery compartment.

Make sure the polarities are lined up as indicated in the battery compartment.



3. Replace the battery compartment cover securely.

⚠ CAUTION

Never mix old and new batteries or different types of batteries (e.g., alkaline and manganese).

To prevent possible damage from battery leakage, remove the batteries from the instrument if it is not to be used for a long time.

☐ When the batteries are low, replace with a complete set of six new batteries. Never mix old and new batteries or different types of batteries. The batteries are low when the DD-20's voices become noticeably distorted or the DD-20 resets to default settings unexpectedly.

Playing the Demo

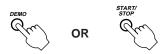
To give you an idea of the DD-20's sophisticated capabilities, it comes with a demonstration song.

▼ To play back the demonstration song:

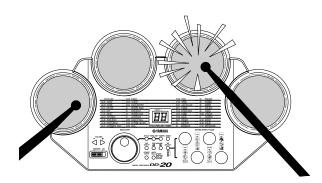
1. Press the DEMO button.



2. To stop playback, press either the DEMO button again or the START/STOP button.



You can begin playing the DD-20's percussion pads as soon as you turn the STANDBY/ON switch on and adjust the volume to an appropriate level.



Percussion Set

The DD-20 allows you to choose from ten different Percussion Sets quickly and easily. Nine Percussion Sets have preset voice combinations. (See Percussion Set List on page 13.). The DD-20 has one Custom Percussion Set allowing you to combine any four of the DD-20's voices into a set. (See "Pad Assign" on page 9.)

▼ To select a Percussion Set:

1. Press the PERC. SET button to enter the Percussion Set mode.

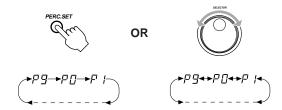




The current Percussion Set number appears in the LED display.

You have approximately three seconds after the PERC. SET button is released to start selecting a Percussion Set before the DD-20 returns to the Auto Rhythm Style mode.

2. Press the PERC. SET button repeatedly or turn the SELECTOR dial until the desired Percussion Set number appears in the LED display.



The Percussion Set numbers only cycle forward when you press the PERC. SET button.

The SELECTOR dial turns either clockwise or counterclockwise and the Percussion Set numbers cycle up or down accordingly.

- Percussion Sets appear in the LED display as P0-P9. P0 is the Custom Percussion Set and P1-P9 represent different combinations of four voices.
- □ Percussion Set P1 is automatically selected when the power is turned on.

Pad Assign

The DD-20 contains a total of 55 high quality voices that can be assigned to each of the four percussion pads. The Custom Set pad assignment allows any combinations of the 55 voices.

▼ To assign a voice to a percussion pad:

1. Strike the percussion pad to which you want to assign a voice.



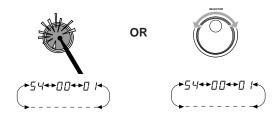
2. Press and hold either the ◀ or ▶ PAD ASSIGN button.





The currently assigned voice number is shown in the LED display.

3. While holding either PAD ASSIGN button, strike the same percussion pad repeatedly or turn the SELECTOR dial until the desired voice number appears in the LED display. (See the Voice List on page 13.)



Voice numbers cycle from 00 to 54 to 00 when striking the percussion pad.

The ■ PAD ASSIGN button decreases the voice number and the ▶ PAD ASSIGN button increases the voice number.

4. Release the ◀ or ▶ PAD ASSIGN button.

A new voice is now assigned to the designated percussion pad.

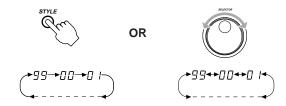
- 5. Repeat steps 1 to 4 for any or all of the other DD-20 percussion pads to set the four percussion pads to the desired voice(s).
- ☐ The DD-20 always returns to Custom Set P0 when assigning voices to a percussion pad.
- All pad assignment changes are memorized in Custom Set P0 until the power is turned off.

Style

The DD-20 features a large variety of Auto Rhythm Styles including variations of basic 8 and 16 beat patterns as well as more exotic styles such as Son Afro and Calypso. You can play along with any of the DD-20 Auto Rhythm Styles. (See the front panel for the Style list.)

▼ To select and play back an Auto Rhythm Style:

1. Press the STYLE button repeatedly or turn the SELECTOR dial until the desired Auto Rhythm Style number appears in the LED display.



The Auto Rhythm Style numbers only cycle forward when you press the STYLE button.

The SELECTOR dial turns either clockwise or counterclockwise and the Auto Rhythm Style numbers cycle up or down accordingly.

2. Press the START/STOP button.



The currently selected Auto Rhythm Style plays back.

To stop playback, press the START/STOP button again.

- ☐ You can select another Auto Rhythm Style or enter the Tempo, Percussion Set or Sound Effect Set mode while any Auto Rhythm Style is playing.
- ☐ Auto Rhythm Style "Dance 1" is automatically selected and "00" appears in the LED display when the power is turned on.
- Auto Rhythm Style "00" is selected and appears automatically in the LED display when the demonstration song is stopped.

Tempo

The tempo can be adjusted in 35 steps, from 40 to 280 beats per minute (bpm). The steps are shown in the LED display as values from 01 to 35. The default tempo varies according to Auto Rhythm Style.

▼ To adjust the tempo:

1. Press the TEMPO button to enter the Tempo mode.

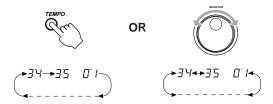




The currently selected Tempo value appears in the LED display and the right Tempo dot lights.

You have approximately three seconds after releasing the TEMPO button to start adjusting the tempo setting before the DD-20 returns to Auto Rhythm Style mode.

2. Press the TEMPO button repeatedly or turn the SELECTOR dial until the desired tempo value appears in the LED display.



The tempo values only cycle forward when you press the TEMPO button.

The SELECTOR dial turns either clockwise or counterclockwise and the tempo values cycle up or down accordingly.

The range of available tempos is from 40 to 280 bpm. You can change the current tempo while any Auto Rhythm Style is playing.

Tap Start

The DD-20 features a Tap Start function that sets the overall tempo depending on how fast you strike the percussion pads. This is an advanced feature that is very useful for coordinating your playing tempo with the selected Auto Rhythm Style tempo.

▼ To set the tempo with Tap Start:

1. Press the TAP START button to enter the Tap Start mode.





The left Tempo dot flashes at the current tempo indicating that you are in Tap Start standby mode.

To cancel the Tap Start mode, press the TAP START button again.

- 2. Strike any percussion pad three or four times depending on the time signature of the selected Auto Rhythm Style.
- 3. Playback of the currently selected Auto Rhythm Style will start at the desired tempo right after the third or fourth strike on the percussion pad.
- 4. To stop playback, press the START/STOP button.

To stop playback and enter Tap Start standby mode, press the TAP START button.



LED display Tempo Dots

The DD-20 has two tempo lights in the top of the LED display. During Auto Rhythm Style playback, the two lights flash in a specific pattern so you can keep the beat easily. The tempo lights flash as follows:

Auto Roll

The DD-20 is equipped with three Auto Roll effects that help enhance your playing. The effects include ECHO, FLAM and ROLL. Each of these effects varies according to the selected tempo so that the initial strike starts the effect and the DD-20 keeps the beat throughout the effect's duration. Auto Roll effects work only with the percussion pads.

▼ To select an Auto Roll effect:

1. Press the AUTO ROLL button once to enter the Auto Roll mode.





The current Auto Roll setting will appear in the LED display for approximately 3 seconds.

2. Select an effect from the list next to the AUTO ROLL button and press the AUTO ROLL button in succession until the desired effect setting appears in the LED display.

The Auto Roll OFF setting is automatically selected when the power is turned on.

☐ The Auto Roll function may produce unexpected effects or not produce any effect at all, depending on the voice selected and the tempo setting.

Effect Setting	Description			
(CFF)	No Auto Roll effects are assigned. The DD-20 will produce a fading echo sound automatically. The DD-20 will produce a double note (called a flam) for every single note you play. The DD-20 will produce a drum roll synchronized			
(ROLL)	with the tempo setting. Each time you strike a percussion pad a roll will follow.			

Sound Effect

The DD-20 has four sound effect pads that feature 16 realistic and versatile sound effects. A set of four different sound effects, represented by the symbols printed on the DD-20's front panel, is available for each sound effect pad.

▼ To select different sound effects:

1. Press the SE SELECT button to enter the Sound Effect mode.

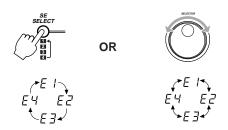




The current sound effect set number will appear in the LED display.

You have approximately three seconds, after releasing of the SE SELECT button to start selecting the sound effect setting before the DD-20 returns to the Auto Rhythm Style mode.

2. Press the SE SELECT button repeatedly or turn the SELECTOR dial until the desired sound effect set number appears in the LED display.



The sound effect set numbers only cycle forward from E1 to E4 when you press the SE SELECT button.

The SELECTOR dial turns either clockwise or counterclockwise and the sound effect set numbers cycle up or down accordingly.

Troubleshooting

In many cases, seemingly big problems or malfunctions can be remedied easily. Please check the following list before deciding that your DD-20 is broken.

If the problem is not listed here or the suggested remedy is ineffective, take the DD-20 to an authorized Yamaha dealer for proper diagnosis and repairs. Do not attempt to repair this digital percussion instrument as serious damage may occur.

A buzz or click occurs momentarily when the DD-20 is turned ON or OFF.

☐ This is a normal power surge noise that occurs when the STANDBY/ON switch is operated.

The LED display is completely dark.

The batteries are low and should be replaced immediately.

No sound comes from the speakers.

- ☐ The volume is turned down too low and should be adjusted up appropriately.
- A plug is inserted into the HEADPHONES/AUX.
 OUT iack and should be taken out immediately.

The wrong voice plays when you strike a percussion pad.

☐ The desired voice has not been assigned to the percussion pad. Use the PAD ASSIGN function to program the desired voice to the appropriate percussion pad.

The custom pad voice assignments have disappeared or defaulted.

- ☐ The batteries are low and should be replaced immediately.
- ☐ The STANDBY/ON switch has been turned STANDBY and ON and the default voices have replaced the desired voices. Use the PAD ASSIGN function to program the desired voices again.

When the percussion pads are struck, the LED display goes dark momentarily and then changes to the default reading "00".

☐ The batteries are low and should be replaced immediately.

Specifications

Percussion pads

4 (touch sensitive)

SE pads

4

Percussion sets

9 preset + 1 custom

Auto Rhythm Styles

100

Instrument and Sound Effect Voices

55

Auxiliary Functions

Tap Start, Auto Roll, Auto Rhythm Style, Demonstration

Song

Panel Controls

STANDBY/ON switch, SELECTOR dial, VOLUME buttons, STYLE button, PERC. SET button, TEMPO button, TAP START button, PAD ASSIGN buttons, START/STOP button, AUTO/ROLL button, SE SELECT button, DEMO button

LED Display

STYLE/PERCUSSION SET/ TEMPO and other settings

Connectors

DC IN 10-12V

Headphones/AUX.OUT

Main amplifier

3.8W (EIAJ)

Speaker

10.0cm

Power Supply

AC power adaptor

YAMAHA PA-3B or PA-3C

(sold separately)

Batteries

Six "AA" size, R-6, or equivalent

batteries (sold separately)

Dimensions (W x D x H)

435mm x 236mm x 160mm (17 1/8" x 9 1/4" x 6 1/3")

Weight

1.4 Kg (3 lbs., 1oz.)

Supplied accessories

Percussion Sticks

* Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.

Percussion Set List

	Name	PAD 1		PAD 2		PAD 3		PAD 4	
P0	CUSTOM SET	01	Bass Drum 2	04	Snare 2	10	E. Tom 1 Hi	18	Crash Cymbal
P1	BASIC SET	00	Bass Drum 1	03	Snare 1	13	Hi-Hat (Closed) 1	17	Ride Cymbal
P2	FILL IN SET	03	Snare 1	10	E. Tom 1 Hi	11	E. Tom 1 Low	18	Crash Cymbal
Р3	ROCK SET	01	Bass Drum 2	04	Snare 2	09	Tom Low	18	Crash Cymbal
P4	DANCE SET	02	Bass Drum 3	06	Snare 3	12	E. Tom 2	49	Orchestra Hit
P5	LATIN SET 1	22	Conga Mute	20	Conga Hi	21	Conga Low	25	Cabasa
P6	LATIN SET 2	28	Timbale Hi	29	Timbale Low	26	Cowbell	18	Crash Cymbal
P7	LATIN SET 3	23	Agogo Hi	24	Agogo Low	27	Cuica	31	Hand Clap
P8	EFFECT SET	43	SFX 1	44	SFX 2	45	SFX 3	49	Orchestra Hit
P9	REMIX SET	04	Snare 2	05	Snare Reverse	18	Crash Cymbal	19	Crash Reverse

[•] The DD-20 percussion pads are numbered 1-4 from left to right.

Voice List

Type	No.	Voice	Туре	No.	Voice
	00	Bass Drum 1 (Normal)		28	Timbale Hi
Bass Drums	01	Bass Drum 2 (Heavy)		29	Timbale Low
	02	Bass Drum 3 (Electric)	Percussion	30	Finger Snap
	03	Snare 1 (Normal)		31	Hand Clap
	04	Snare 2 (Heavy)		32	Cross Sticks
Snare Drums	05	Snare Reverse		33	Metronome
	06	Snare 3 (Electric)		34	"One"
	07	Rim Shot		35	Reverse Voice
	08	Tom Hi		36	"Two"
	09	Tom Low		37	"Three"
Toms	10	E. Tom 1 Hi		38	"Four"
	11	E. Tom 1 Low		39	Gorilla
	12	E. Tom 2		40	Cat
	13	Hi-Hat (Closed) 1		41	Dog
Hi-Hats	14	Hi-Hat (Open) 1		42	Horse
⊓i-⊓aเร 	15	Hi-Hat (Closed) 2	Sound Effects	43	SFX 1
	16	Hi-Hat (Open) 2		44	SFX 2
	17	Ride Cymbal		45	SFX 3
Cymbals	18	Crash Cymbal		46	Веер
	19	Crash Cymbal Reverse		47	Alarm
	20	Conga Hi		48	Applause
Percussion	21	Conga Low		49	Orchestra Hit
	22	Conga Mute		50	Telephone
	23	Agogo Hi		51	Horn
	24	Agogo Low		52	Laughter
	25	Cabasa		53	Breaking Glass
	26	Cowbell		54	Metronome Accent
	27	Cuica			

[•] Any of the above voices can be assigned to each of the four percussion pads.

For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

Pour plus de détails sur les produits, veuillez-vous adresser à Yamaha ou au distributeur le plus proche de vous figurant dans la liste suivante.

Die Einzelheiten zu Produkten sind bei Ihrer unten aufgeführten Niederlassung und bei Yamaha Vertragshändlern in den jeweiligen Bestimmungsländern erhältlich.

Para detalles sobre productos, contacte su tienda Yamaha más cercana o el distribuidor autorizado que se lista debajo.

NORTH AMERICA

CANADA

Yamaha Canada Music Ltd.

135 Milner Avenue, Scarborough, Ontario, M1S 3R1, Canada Tel: 416-298-1311

U.S.A.

Yamaha Corporation of America

6600 Orangethorpe Ave., Buena Park, Calif. 90620, U.S.A.

Tel: 714-522-9011

CENTRAL & SOUTH AMERICA

Yamaha de Mexico S.A. De C.V.,

Departamento de ventas

Javier Rojo Gomez No.1149, Col. Gpe Del Moral, Deleg. Iztapalapa, 09300 Mexico, D.F. Tel: 686-00-33

Yamaha Musical do Brasil LTDA. Av. Rebouças 2636, São Paulo, Brasil

Tel: 011-853-1377

ARGENTINA

Yamaha de Panamá S.A. Sucursal de Argentina Viamonte 1145 Piso2-B 1053,

Buenos Aires, Argentina Tel: 1-4371-7021

PANAMA AND OTHER LATIN AMERICAN COUNTRIES/ CARIBBEAN COUNTRIES

Yamaha de Panamá S.A. Torre Banco General, Piso 7, Urbanización Marbella, Calle 47 y Aquilino de la Guardia, Ciudad de Panamá, Panamá Tel: +507-269-5311

EUROPE

THE UNITED KINGDOM

Yamaha-Kemble Music (U.K.) Ltd.

Sherbourne Drive, Tilbrook, Milton Keynes, MK7 8BL, England Tel: 01908-366700

IRELAND

Danfay Ltd.

61D, Sallynoggin Road, Dun Laoghaire, Co. Dublin Tel: 01-2859177

Yamaha Music Central Europe GmbH Siemensstraße 22-34, 25462 Rellingen, Germany

Tel: 04101-3030

SWITZERLAND/LIECHTENSTEIN

Yamaha Music Central Europe GmbH,

Branch Switzerland

Seefeldstrasse 94, 8008 Zürich, Switzerland Tel: 01-383 3990

Yamaha Music Central Europe GmbH,

Branch Austria

Schleiergasse 20, A-1100 Wien, Austria Tel: 01-60203900

THE NETHERLANDS

Yamaha Music Central Europe,

Branch Nederland

Clarissenhof 5-b, 4133 AB Vianen, The Netherlands Tel: 0347-358 040

BELGIUM/LUXEMBOURG

Yamaha Music Central Europe GmbH,

Branch Belgium

Rue de Geneve (Genevastraat) 10, 1140 - Brussels, Belgium

Tel: 02-726 6032

FRANCE

Yamaha Musique France, S.A.

Division Professionnelle BP 70-77312 Marne-la-Vallée Cedex 2, France Tel: 01-64-61-4000

ITALY

Yamaha Musica Italia S.P.A.

Combo Division

Viale Italia 88, 20020 Lainate (Milano), Italy Tel: 02-935-771

SPAIN/PORTUGAL

Yamaha-Hazen Música, S.A.

Ctra. de la Coruna km. 17, 200, 28230 Las Rozas (Madrid), Spain Tel: 91-639-8888

Philippos Nakas S.A. The Music House

147 Skiathou Street, 112-55 Athens, Greece Tel: 01-228 2160

Yamaha Scandinavia AB

J. A. Wettergrens Gata 1 Box 30053

S-400 43 Göteborg, Sweden Tel: 031 89 34 00

DENMARK

YS Copenhagen Liaison Office

Generatorvej 8B

DK-2730 Herley, Denmark Tel: 44 92 49 00

FINLAND

F-Musiikki Oy

Kluuvikatu 6, P.O. Box 260, SF-00101 Helsinki, Finland Tel: 09 618511

NORWAY

Norsk filial av Yamaha Scandinavia AB Grini Næringspark 1

N-1345 Østerås, Norway

Tel: 67 16 77 70

ICELAND

Skifan HF

Skeifan 17 P.O. Box 8120 IS-128 Reykjavik, Iceland Tel: 525 5000

OTHER EUROPEAN COUNTRIES

Yamaha Music Central Europe GmbH

Siemensstraße 22-34, 25462 Rellingen, Germany Tel: +49-4101-3030

AFRICA

Yamaha Corporation,

Asia-Pacific Music Marketing Group Nakazawa-cho 10-1, Hamamatsu, Japan 430-8650

Tel: +81-53-460-2312

MIDDLE EAST

TURKEY/CYPRUS

Yamaha Music Central Europe GmbH Siemensstraße 22-34, 25462 Rellingen, Germany Tel: 04101-3030

OTHER COUNTRIES

Yamaha Music Gulf FZE

LB21-128 Jebel Ali Freezone P.O.Box 17328, Dubai, U.A.E. Tel: +971-4-881-5868

ASIA

HONG KONG

Tom Lee Music Co., Ltd.

11/F., Silvercord Tower 1, 30 Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: 2737-7688

INDONESIA

PT. Yamaha Music Indonesia (Distributor) PT. Nusantik

Gedung Yamaha Music Center, Jalan Jend, Gatot

Subroto Kav. 4, Jakarta 12930, Indonesia Tel: 21-520-2577

KOREA

Yamaha Music Korea Ltd.

Tong-Yang Securities Bldg. 16F 23-8 Yoido-dong, Youngdungpo-ku, Seoul, Korea Tel: 02-3770-0661

MALAYSIA

Yamaha Music Malaysia, Sdn., Bhd.

Lot 8, Jalan Perbandaran, 47301 Kelana Jaya, Petaling Jaya, Selangor, Malaysia Tel: 3-703-0900

PHILIPPINES

Yupangco Music Corporation

339 Gil J. Puyat Avenue, P.O. Box 885 MCPO, Makati, Metro Manila, Philippines Tel: 819-7551

SINGAPORE

Yamaha Music Asia Pte., Ltd.

11 Ubi Road #06-00, Meiban Industrial Building, Singapore Tel: 65-747-4374

TAIWAN

Yamaha KHS Music Co., Ltd.

3F, #6, Sec.2, Nan Jing E. Rd. Taipei. Taiwan 104, R.O.C. Tel: 02-2511-8688

THAILAND

Siam Music Yamaha Co., Ltd.

121/60-61 RS Tower 17th Floor, Ratchadaphisek RD., Dindaeng, Bangkok 10320, Thailand Tel: 02-641-2951

THE PEOPLE'S REPUBLIC OF CHINA AND OTHER ASIAN COUNTRIES

Yamaha Corporation,

Asia-Pacific Music Marketing Group Nakazawa-cho 10-1, Hamamatsu, Japan 430-8650 Tel: +81-53-460-2317

OCEANIA

AUSTRALIA

Yamaha Music Australia Pty. Ltd.

Level 1, 99 Queensbridge Street, Southbank, Victoria 3006, Australia Tel: 3-9693-5111

NEW ZEALAND

Music Houses of N.Z. Ltd.

146/148 Captain Springs Road, Te Papapa, Auckland, New Zealand Tel: 9-634-0099

COUNTRIES AND TRUST TERRITORIES IN PACIFIC OCEAN

Yamaha Corporation,

Asia-Pacific Music Marketing Group
Nakazawa-cho 10-1, Hamamatsu, Japan 430-8650 Tel: +81-53-460-2312



Yamaha PK CLUB (Portable Keyboard Home Page, English only)

http://www.yamahaPKclub.com/

Yamaha Manual Library

http://www2.yamaha.co.jp/manual/english/

M.D.G., Pro Audio & Digital Musical Instrument Division, Yamaha Corporation $\ \odot \ 2003 \ Yamaha \ Corporation$