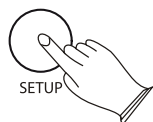


Then use [+ /YES] / [- /NO] button to adjust the MASTERTUNE Range: -64 ~ +63 (Default: 0).

Press [+ /YES] & [- /NO] buttons simultaneously to restore the default value.

17. Loadmem

Press [SETUP] button to enter the function menu. Use [SETUP] button or [- /NO] button to select [LOADMEM?]. Press [+ /YES] button into the option, the LCD will display:LOADMEM: 1?. Then press [SETUP] button to adjust the LOADMEM Range:1?~8? . Use [+ /YES] button to confirm, the LCD will display:LOADMEM: 1DONE.



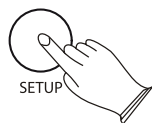
The LOADMEM mode will indicate these parameters as shown below:

Mainstone	Splitstone
Layertone	Tempo
Tune	Touch
Splitpoint	Mainvol
Splitvol	Layervol
Reverb	Reverb level
Chorus	Chorus level
Transpose	Metrovol
Usertone 1-8	Keyboardstatus
User On/Off	

18. Savemem

Press [SETUP] button to enter the function menu. Use [SETUP] button or [- /NO] button to select [SAVEMEM?]. Press [+ /YES] button into the option, the LCD will display: SAVEMEM: 1?. Then press [SETUP] button to adjust the SAVEMEM

Range:1?~8? (Default: 1?). Use [+ /YES] button to confirm,the LCD will display:
SAVEMEM: 1 DONE.



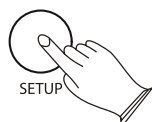
The SAVEMEM mode will indicate these parameters as shown below:

Mainstone	Splitstone
Layertone	Tempo
Tune	Touch
Splitpoint	Mainvol
Splitvol	Layervol
Reverb	Reverb level
Chorus	Chorus level
Transpose	Metrovol
Usertone 1-8	Keyboardstatus
User On/Off	

19. Grading

When this function is engaged, after playing play-along songs, it will give you grading automatically according to your performance. There are 4 levels of the grading: Excellent, Very good, Good and Try Again.

Press [SETUP] button to enter the function menu. Use [SETUP] button or [- /NO] button to select [GRADING]. Then use [+ /YES] / [- /NO] button to select on or off.

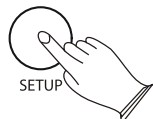


GRADING ON: turn on the Grading mode.

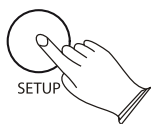
GRADING OFF: turn off the Grading mode.

20.Local

Press [SETUP] button to enter the function menu. Use [SETUP] button or [-/NO] button to select [LOCAL ?]. Press [+ /YES] button into the option, the LCD will display:***LOCAL ON***.



Then use [-/NO] button to mute the local sound.The LCD will display:***LOCAL OFF** .



21.Bluetooth

Press [SETUP] button to enter the function menu. Use [SETUP] button or [-/NO] button to select [BLUETOOTH?]. Press [+ /YES] button into the option, the LCD will display: BLUETOOTH OFF. Then use [+ /YES] / [-/NO] button to Select ON or OFF.



22.Reset

Press [SETUP] button to enter the function menu. Use [SETUP] button or [-/NO] button to select [RESET?]. Press [+ /YES] button into the option, the LCD will display: RESETTING. The Piano return to the factory setting.



REGISTRATION MEMORY

Your instrument registration memory can be used to store eight sets of voice settings that can be recalled during you playing at the touch of one single button.

1. Save

Please refer to [SETUP] function, see page 19.

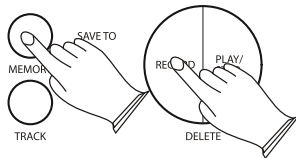
2. Load

Please refer to [SETUP] function, see page 19.

3. Saving The Registration Data To USB Disk

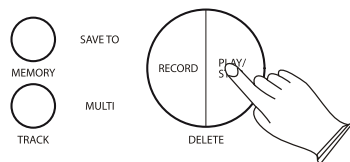
Insert the USB Disk into the USB terminal.

Press the [MEMORY] button and press the [RECORD] button simultaneously, a message `xxREGSTxxx` (xx indicates this file's sequence Number in Udisk. xxx indicates registration file number) appears, indicating your Registration Memory Settings are saved to USB Disk, with 8 Registrations stored to a single file.



4. Use Registration Data From USB

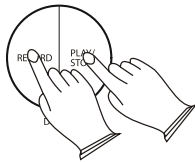
Insert the USB Disk into the USB terminal. Use [+ / YES] / [- / NO] button to select REG file, then press [PLAY / STOP] button, display shows `LOAD OK!`



8 Registrations will be loaded to the memory store on the panel. You can recall the information you have loaded by pressing [SETUP] button. Please refer to [SETUP] function, see page 19.

5. Delete REG File From USB

Insert the USB Disk into the USB terminal. [+ /YES] / [- /NO] button to select REG file you want to delete, then hold down the [PLAY/STOP] button and press the [RECORD] button . LCD shows:



Press [+ /YES] button to delete the file.
Press [- /NO] button to cancel.

SONG RECORDING

This digital piano lets you record your performances and Registration settings to a USB Disk. Each user song lets you record up to sixteen independent tracks. These include not only the voices for the keyboard performance, but also the auto accompaniment parts.

It provides two different ways to record: USB Recording and Melody Track Recording. Melody Track Recording, which can save into local memory.

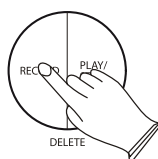
Two Tracks recording can be save into USB disk as a MIDI File and the MIDI file in the USB disk can be load to local memory.

I. Quick Recording

1.1. Insert the USB Disk into the USB Terminal

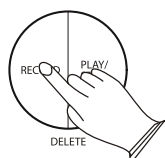
1.2. Start Recording

Press the [RECORD] button and the button indicator is flashing, then you can start recording .



1.3. Stop Recording

Press [RECORD] button again to stop recording. Recording stops and your performance is written to the song. The song to which your performance is recorded is automatically named xxSONG_xxx (xx indicates this file's sequence Number in Udisk. xxx indicates the recording file number). You can edit the song as desired by computer or midi edit soft.



Quick Recording automatically makes track assignments as below:

Track 1----- Main Voice

Track 2----- Split Voice

Track 3----- Dual Voice

2. Multi Track Recording

Multi track recording provides two ways to record:

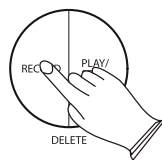
- A. Use Auto Track Assignment.
- B. Select Tracks by yourself.

2.1. Use Auto Track Assignment.

2.1.1 Insert the USB Disk Into the USB Terminal

2.1.2 Press the [RECORD] button to start recording.

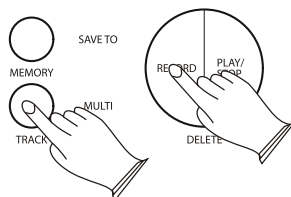
(The first one measures are tempo prompt only. It cannot record any data).



2.1.3 Press [RECORD] button again to stop recording.

Recording stops and your performance is written to the song. The song to which your performance is recorded is automatically named xxSONG_ xxx (xx indicates the song file number. SONG_ xxx is the song's name).

2.1.4 Hold down [TRACK] button ,then press [RECORD] button to start Recording(the first one measures are tempo prompt only). When the recording is finished, the recording file will be saved as a new file named SONG_002



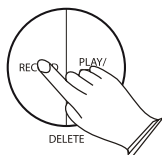
2.1.5 Use the same operation as step 4 to record more tracks. The name of the new file will be saved in sequence.

2.2. Select Tracks by Yourself

2.2.1 Insert the USB disk Into the USB terminal.

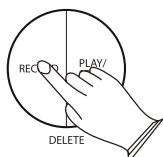
2.2.2 Press the [RECORD] button to start recording.

(The first one measures are tempo prompt only. It cannot record any data).



2.2.3 Press [RECORD] button again to stop recording.

Recording stops and your performance is written to the song. The song to which your performance is recorded is automatically named “xxSONG_xxx” (“xx” indicates the song file number. “SONG_xxx ” is the song's name).



2.2.4 Select Recording Track

Press [TRACK] button repeatedly can select three voice mode, you can use [+ /YES]/[- /NO] button to select the track (01-16,off) in each mode.

Quick Recording automatically makes track assignments as below:

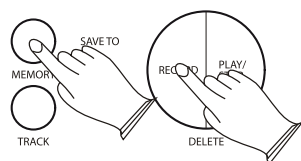
Track 1----- Main Voice

Track 2----- Split Voice

Track 3----- Dual Voice

If you record Main Voice only, please turn off the Split Track and Dual Track.

2.2.5. Hold down the [MEMORY] button ,then press [RECORD] button, when the recording is finished, the recording file will be saved as a new file named “SONG_002”

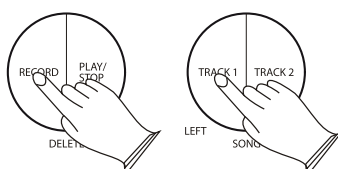


2.2.6. Use the same operation as Step 4 and Step 5 to record more tracks. The name of the new file will be saved in sequence.

3. Melody Track Recording

3.1 Melody Track1 Recording

Hold down the [RECORD] button, and then press the [TRACK1] button, the [TRACK1] and the [RECORD] indicator flashes to indicate ready to record. You can start recording simply by playing the key board or playing styles.



Press the [RECORD] button again to stop recording and the data will save to local memory track.

NOTE

If the TRACK 2 has data recorded, the indicator will light and it will play when the record is started. You can press the [TRACK 2] button to mute it, then the indicator will be unlighted.

3.2 Melody Track2 Recording

Hold down the [RECORD] button, and then press the [TRACK2] button, the [TRACK2] and the [RECORD] indicator flashes to indicate ready to record. You can start recording simply by playing the key board.

Press the [RECORD] button again to stop recording and the data will save to local memory track 2.

NOTE

If the TRACK 1 has data recorded, the indicator will light and it will play when the [TRACK2] is started. You can press the [TRACK 1] button to mute it, then the indicator will be unlighted.

3.3 Play the Local Track Recording

Press the [PLAY] to play the local recording. During song playback you can select which track you wish to hear by press the [TRACK 1] or [TRACK2] button.

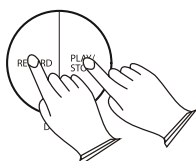
3.4 Play the Local Track Recording

If the TRACK 1 has data recorded, hold the [TRACK 1] button for 3 seconds and the LCD will display: Delete Track1. Then press the [+ /YES] to delete the file. Press [- /No] button to cancel.

If the TRACK 2 has data recorded, hold the [TRACK 2] button for 3 seconds and the LCD will display: Delete Track 2. Then press the [+ /YES] to delete the file. Press [- /No] button to cancel.

4. Delete Song

Insert the USB Disk into the USB terminal. Use [+ /YES] [- /NO] buttons to select SONG_ xxx file you want to delete, hold down the [PLAY/STOP] button and press the [RECORD] button.

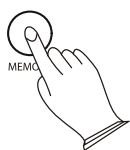


Press [+ /YES] button to delete the file.

Press [- /NO] button to cancel.

5. Memory Button

Use this button you can switch to USB mode immediately even the keyboard is in any of other mode.



6. Mutetrack

Use this function you can turn on or turn off any tracks before song playing or recording.

Please refer to [SETUP] function, see page 17.

7. Adjusting Song's Volume

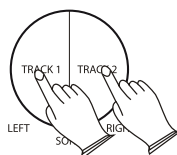
Please refer to [SETUP] function, see page 17.

PLAY ALONG SONGS

There are 55 songs built into this Piano for your musical enjoyment. These songs have separate left and right-hand parts that can be turned on and off as required so you can practice the corresponding part on the piano.

I. Selecting A Song

Turn on the song mode by pressing both the [LEFT] and [RIGHT] buttons simultaneously. The song number will appear on the LCD display. Both Right and Left indicator are OFF.



Use the [- /NO] / [+ /YES] buttons to select a song. Press the [PLAY/STOP] button to start the song.

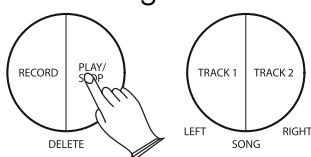
If you want to play slower or faster than the preset tempo, press the [TEMPO] button and use the [- /NO] / [+ /YES] buttons to set the tempo based on the original tempo of the song. The range is 20 to 280 BPM (beats per minute).

Press the [- /NO] & [+ /YES] buttons simultaneously to recall the default Tempo or the selected song.

2. Listening To The Entire Song

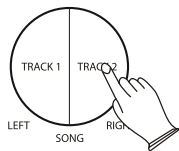
1). With the play along song mode engaged, press the [PLAY/STOP] button to hear both hand parts playing the entire song.

2). Press the [PLAY/STOP] button again to stop. Otherwise, playback will stop automatically at the end of the song.



3. Practicing The Right Hand Of The Selected Song

1). With the play along song mode engaged, press the [RIGHT] button to mute the right hand part. The right indicator lights up.



2). Press the [PLAY/STOP] button. Its indicator lights up and you will hear the metronome “count in” the song. You will then hear the left-hand part.

NOTE

The default status of the metronome is ON. Press the METRONOME button if you want to disable the metronome sound in the right / Left hand mode. But, in the both hands mode, it cannot be turned off.

3). Play the right-hand part of your selected song while the left-hand part plays.

4). Press the [PLAY/STOP] button again to stop. Otherwise, playback will stop automatically at the end of the song.

4. Practicing The Left Hand Of The Selected Song

Follow steps 1-5 listed above, substituting the LEFT button whenever RIGHT button is mentioned. You will hear the right-hand part of your selected song. Play the left-hand part of your selected song while the right-hand part plays.

5. Practicing The Both Hand Of The Selected Song

1). While the play along song mode is engaged, press the [RIGHT] and [LEFT] buttons simultaneously.

2). Press the [LEFT] button first, then the [RIGHT] button.

3). Press the [PLAY/STOP] button. Its indicator lights up and you will hear the

metronome “count in” the song.

4). Play the left-hand and right-hand parts of your selected song. The metronome will continue to play to assist you in keeping time.

5). Press the PLAY/STOP button again to stop. Otherwise, playback will stop automatically at the end of the song.

MIDI FUNCTION

If you are an advanced MIDI user, this section will help you to access the MIDI controller capabilities of the A-20. If you already know that you need this specialized functionality, then this section is for you. However, this information is not necessary in order to enjoy playing the piano. A good rule to keep in mind is: If you don't know what a function described in this section is, then you probably don't need it.

MIDI, or Musical Instrument Digital Interface, is the way most electronic keyboards communicate with computers and with each other. Through a series of MIDI messages a computer or keyboard can tell an instrument what note to play, how loud to play it, when to stop playing it, and a host of other information.

The A-20 can send MIDI information to a computer or another MIDI-capable instrument, via its MIDI or USB output. This enables the A-20 to act as a controller keyboard for another instrument, MIDI sequencer or MIDI enabled Digital Audio Workstation program.

Local On/Off

Turning the Local On/Off function to Off will disconnect the keyboard from the internal sound engine of the A-20. This means you can use the A-20 as a MIDI controller to control other MIDI devices (or virtual instrument software running on your computer) without playing the internal sounds of the A-20.

You may also find other occasions (such as when you are using MIDI sequencing software on your computer) where it is useful to turn Local off.

Turn Local On/Off to Off

Please refer to [SETUP] function, see page 20.

Turn Local On/Off to On

Please refer to [SETUP] function, see page 20.

APPENDIX

I. Voice List

No.	TONE
Piano	
01	Acoustic Grand Piano
02	Bright Acoustic Piano
03	FM E.PIANO
04	Honky-Tonk Piano
05	Electric piano 1
06	Electric Piano 2
07	Harpsichord
08	Clavi
Chromatic Percussion	
09	Celesta
10	Glockenspiel
11	Music Box
12	Vibraphone
13	Marimba
14	Xylophone
15	Tubular Bells
16	Dulcimer
Organ	
17	Drawbar Organ
18	Percussive Organ
19	Rock Organ
20	Church Organ
21	Reed Organ
22	Accordion
23	Harmonica
24	Tango Accordion
Guitar	
25	Acoustic Guitar(Nylon)
26	Acoustic Guitar (Steel)
27	Electric Guitar (Jazz)
28	Electric Guitar (Clean)
29	Electric Guitar(Muted)
30	Overdriven Guitar
31	Distortion Guitar
32	Guitar Harmonics
Bass	
33	Upright Bass
34	Electric Bass
35	Pick Bass
36	Fretless Bass
37	Slap Bass 1
38	Slap Bass 2
39	Synth Bass 1
40	Synth Bass 2
Strings	
41	Violin
42	Viola
43	Cello
44	Contrabass
45	Tremolo Strings
46	Pizzicato Strings
47	Orchestral Harp
48	Timpani
Ensemble	
49	Strings

No.	TONE
50	Ensemble
51	Synth Strings 1
52	Synth Strings 2
53	Choir Aahs
54	Voice Oohs
55	Synth Voice
56	Orchestra Hit
Brass	
57	Trumpet
58	Trombone
59	Tuba
60	Muted Trumpet
61	French Horn
62	Brass Section
63	Synth Brass 1
64	Synth Brass 2
Reed	
65	Soprano Sax
66	Alto Sax
67	Tenor Sax
68	Baritone Sax
69	Oboe
70	English Horn
71	Bassoon
72	Clarinet
Pipe	
73	Piccolo
74	Flute
75	Recorder
76	Pan Flute
77	Blown Bottle
78	Shakuhachi
79	Whistle
80	Ocarina
Synth Lead	
81	Lead 1 (Square)
82	Lead 2 (Sawtooth)
83	Lead 3 (Calliope)
84	Lead 4 (Chiff)
85	Lead 5 (Charang)
86	Lead 6 (Voice)
87	Lead 7 (Fifth)
88	Lead 8 (Bass+Lead)
Synth Pad	
89	Pad 1 (New Age)
90	Pad 2 (Warm)
91	Pad 3 (Polysynth)
92	Pad 4 (Choir)
93	Pad 5 (Bowed)
94	Pad 6 (Metallic)
95	Pad 7 (Halo)
96	Pad 8 (Sweep)
Synth Effects	
97	Fx 1 (Rain)
98	Fx 2 (Soundrack)
99	Fx 3 (Crystal)

[illegible]

2. MIDI Implementation Chart

Function	Transmitted	Recognized	Remarks
Basic Default	(*1)	1-16CH	
Channel Changed	(*1)	1-16CH	
Mode Default	Mode 3	Mode 3	
Messages	X	X	
Altered	*****	X	
Note	0~127	0~127	
Number : True voice	*****	0~127	
Velocity Note ON	O 9nH,v=1~127	O 9nH,v=1~127	
Note OFF	O 9nH,v=0 or 8nh	O 9nH,v=0 or 8nh	
After Key's	X	X	
Pitch Bender	X	O	
Control Change	O	O	Bank Select
0,32	X	O	Modulation
1	X	O	Portamento time
5	O	O	Data Entry
6	O	O	Volume
7	O	O	Pan
10	X	O	Expression
11	X	O	Sustain
64	O	O	Portamento
65	X	O	Sostenuto
66	O	O	Soft pedal
67	O	O	DSP TYPE
80,81	O	O	DSP DEPTH
91,93	O	O	RPN LSB,MSB
100,101	O	O(*2)	All sound off
120	O	O	Reset all Controllers
121	X	O	Local control
122	O	O	
Program Change : True	O 0-127	O 0-127	
	0-127	0-127	
System Exclusive	X	O	
System : Song Position	X	X	
: Song Select	X	X	
Common : Tune	X	X	
Aux : Local on/off	O	O	
: All Notes Off	O	O	
Messages : Active Sense	X	O	
: Reset	X	O	

Mode1:OMNI ON,POLY Mode2:OMNI ON,MONO O: Yes
Mode3:OMNI OFF,POLY Mode4:OMNI OFF,MONO X: NO

*1: Main voice track (01-16).Default: 01
Split voice track (01-16).Default: 02
Dual voice track (01-16).Default: 03
Percussion track (01-16).Default: 10

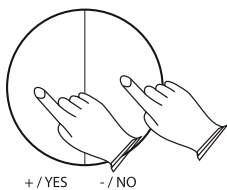
*2: Registered parameter number:
#0: Pitch sensivity
#1: Fine tuning cents
#2: Coarse tuning in half-tones

3. Factory Reset

1). Turn off the power.



2). Hold down [+ /YES] & [- /NO] buttons, then turn the power on, it can restore all internal settings to factory set.



4. Specifications

Keyboard:

88 Notes Graded Hammer Action

Display:

LCD Display

Voice:

128

Polyphony:

64

Voice Control:

Layer, Split, User, Touch, Duet,
Transpose, Tune

Pedals:

Soft, Sostenuto, Sustain

Effect:

Reverb, Chorus

Demo Song:

16

Registration Memory:

8 Panel Setting,
Memorize to USB
USB Host

Song Recording:

Quick Recording,
Multi Recording,
Recording Tracks: 1-16

Midi:

Transmit Settings
Receive Settings
Local Control
USB MIDI

Connectors:

MIDI In, MIDI Out, Pedal, Line In,
Line Out, Phones1, Phones2, USB midi,
Speaker connection

Speaker:

YDG50_3/4ohm 2
YD134-9A(4ohm, 15W) 2

Power Output:

15W 2

Dimensions(W X D X H)

1360mmX384mmX775mm

Weight:

42Kg

Supplied Accessories:

Owner's Manual, Sustain Pedal,
Music Rack, A/C Adapter

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.



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