

VG-88

Version 2

Additional Functions

This document provides descriptions and explanations only for the following features added in Version 2.

Please read this while also referring to the “VG-88 Owner’s Manual.”

■ Additional Algorithms

New algorithms have been added to the COSM guitar, COSM amp, and effects (Modulation, Wah).

● COSM Guitar

With the addition of “Sitar,” “Wave Synth,” and “Nylon II,” which produces an even more realistic nylon guitar tone, the VG-88 now features 22 different COSM guitar types in all.

● COSM Amp

The addition of 18 new amp algorithms now means you have a total of 32 amp types to choose from.

● Modulation

Addition of “Defretter” and “Uni-V” brings the total number of modulation algorithms to 12.

● Wah

5 types of “COSM Wah,” modeling vintage wah and other wah sounds, have been added to the “Pedal Wah,” so now you can choose from 6 different pedal wah sounds.

■ Additional Functions

● GK Connection Detect

A new function, which automatically detects whether or not a GK instrument is connected, and further, provides for the switching of the internal settings, has been added. Even when the instrument is only connected to GUITAR INPUT, you can use all the functions except COSM GUITAR (including the COSM AMP, effects, tuner, and other features).

● Bulk Load in Play page

It is possible to receive the bulk dump data in Play page.

Copyright © 2002 ROLAND CORPORATION

All rights reserved. No part of this publication may be reproduced in any form without the written permission of ROLAND CORPORATION.

Chapter 5. Parameter Guide

COSM GUITAR

TYPE

Selects the COSM guitar type.

NYLON II (nylon string guitar II)

This is a newly developed nylon string guitar sound included with Version 2.

The parameters for this algorithm differ from those used in "NYLON STRINGS."

(PAGE2)

NYLON II

(PAGE3)

EQ (p. 45)

PAN (p. 45)

MIXER (p. 45)

** The reference pages can be found in the "VG-88 Owner's Manual."*

SITAR

This simulates the sitar's characteristic buzzing sound and its changes in timbre.

(PAGE2)

SITAR

(PAGE3)

EQ (p. 45)

PAN (p. 45)

MIXER (p. 45)

** The reference pages can be found in the "VG-88 Owner's Manual."*

WAVE SYNTH

This is a synth sound that processes the string signal direct from the GK pickup.

(PAGE2)

WAVE

(PAGE3)

EQ (p. 45)

PAN (p. 45)

MIXER (p. 45)

** The reference pages can be found in the "VG-88 Owner's Manual."*

NYLON II

ATTACK [0-100]

Specifies the strength of the attack when you pluck the string strongly. As this setting is increased, the attack will be sharper, and the sound will be crisper.

BODY [0-100]

This adjusts the body resonance. The body resonance is boosted as the setting's value is increased.

** The body resonance is monophonic. This means that if this Body parameter is set to 100, the panning of each string will have less effect.*

TONE [-50-+50]

Adjust the tone. Positive (+) values will boost the high range.

LEVEL [0-100]

Adjust the volume.

SITAR

These settings adjust the sitar's characteristic buzzing sound and tone.

PICKUP

This is the switch that selects pickups.

FRONT:

Use the front pickup.

F+R:

Use both front and rear pickups.

REAR:

Use the rear pickup.

PIEZO:

Use the Piezo pickup.

BODY [0-100]

This adjusts the body resonance. The body resonance is boosted as the setting's value is increased.

** The body resonance is monophonic. This means that if this Body parameter is set to 100, the panning of each string will have less effect.*

SENS (sensitivity) [0-100]

Adjusts the input sensitivity.

TONE [-50-+50]

Adjusts the tone of the pickup. Positive (+) values will boost the high range.

LEVEL [0-100]

Sets the volume of the pickup.

COLOR [0-100]

Adjusts the overall tone quality of the sitar.

DECAY [0-100]

Adjusts the time it takes following the attack for the tone to change.

BUZZ [0-100]

This adjusts the amount of characteristic buzz produced by the "buzz bridge" when the strings make contact with it.

ATK LEV (attack level) [0-100]

Adjusts the volume level of the attack.

WAVE SYNTH

These settings determine the waveform and volume of the synth sound, adjust filters, and affect other aspects of the sound.

SHAPE

Selects the wave type on which the synth sound is based.

SAW:

Creates a synth sound with a sawtooth waveform.

SQUARE:

Creates a synth sound with a square waveform.

SENS (sensitivity) [0-100]

This controls the input sensitivity of the wave synth.

ATTACK [0-100]

Adjusts the time it takes for the synth sound to rise after a string is plucked. When it is set to a lower value, the sound will rise quickly. When it is set higher, the sound will rise slowly.

DECAY [0-100]

Adjusts the time it takes for the synth sound to decay. The synth sound decays more quickly when this parameter is set to a lower value. Setting a higher value increases the decay time.

LEVEL [0-100]

Adjusts the volume of the synth sound.

CUTOFF [0-100]

This adjusts the frequency at which the filter cuts off the sound's harmonic components (the cutoff frequency). This parameter determines the sound that will result after the filter has stopped varying due to F.DEPTH.

RESO (resonance) [0-100]

This sets the degree of resonance (distinctiveness) of the sound. A higher value results in a sound that is more unique and extraordinary.

F.TYPE (filter type) [-12 dB, -24 dB]

Selects the level of attenuation in the filter. The -24 dB setting has very steep filtering characteristics.

F.ATTACK (filter attack) [0-100]

Sets the TVF attack time.

F.DECAY (filter decay) [0-100]

Adjusts the time for the modulation of the filtering from F.ATTACK and F.DEPTH to stabilize.

F.DEPTH (filter depth) [-50-+50]

This adjusts the depth of the filter. When the value is higher, the filter will change more drastically. The polarity of the filter will be opposite with "+" and "-."

Chapter 5. Parameter Guide

COSM AMP

* *The trademarks listed in this document are trademarks of their respective owners, which are separate companies from Roland. Those companies are not affiliated with Roland and have not licensed or authorized Roland's VG-88. Their marks are used solely to identify the equipment whose sound is simulated by Roland's VG-88.*

TYPE

The amp types indicated with a "★" are those added in Version 2.

JC-120:

The sound of the Roland "JC-120" (Jazz Chorus 120), a favorite of pro musicians around the world.

★ JAZZ COMBO:

This is a sound suited to jazz.

CLEAN TWIN:

This models a Fender Twin Reverb.

★ PRO CRUNCH:

This models a Fender Pro Reverb.

★ TWEED:

This models a Fender Bassman Combo.

CRUNCH:

Allows you to obtain a crunch effect that creates a natural distortion.

★ STACK CRUNCH:

This is a crunch sound with high gain.

MATCH DRIVE:

This models the sound input to left input on a Matchless D/C-30.

★ MATCH LEAD:

This models the sound input to right input on a Matchless D/C-30.

★ FAT MATCH:

This models the sound of a MATCHLESS with a modified high gain.

★ VO CLEAN:

This models the clean sound of a VOX AC-30TB.

VO DRIVE:

This models the drive sound of a VOX AC-30TB.

★ VO LEAD:

This models the lead sound of the VOX AC-30TB.

BLUES:

A lead sound with a rich middle ideal for Blues.

★ BG RHYTHM:

This models the rhythm channel of a MESA/Boogie.

★ BG DRIVE:

This models a MESA/Boogie with TREBLE SHIFT SW on.

BG LEAD:

This models the lead sound of the MESA/Boogie combo amp.

MS1959(I):

This models the sound input to Input I on a Marshall 1959.

MS1959(II):

This models the sound input to Input II on a Marshall 1959.

MS1959(I+II):

This models the sound of a Marshall 1959 with Inputs I and II connected in parallel.

★ MS HI-GAIN:

This models the sound of a Marshall with a modified midrange boost.

★ R-FIER RED:

This models the lead channel of a MESA/Boogie Dual Rectifier.

★ R-FIER ORANGE:

This models the rhythm channel of a MESA/Boogie Dual Rectifier.

★ R-FIER VINT:

This models a MESA/Boogie Rectifier with VINTAGE SW on.

SLDN LEAD:

This models a Soldano SLO-100.

★ DRIVE STACK:

This is a drive sound with high gain.

★ LEAD STACK:

This is a lead sound with high gain.

METAL 5150:

This models the lead channel of a Peavey EVH 5150.

METAL DRIVE:

A high gain and powerful metal sound.

★ METAL STACK:

This is a drive sound suited to metal.

★ METAL LEAD:

This is a lead sound suited to metal.

AC.GUITAR:

This is a preamp for electric-acoustic guitars.

PRESENCE

* *This appears only when anything other than "MATCH DRIVE," "MATCH LEAD," "FAT MATCH," "VO DRIVE," "VO LEAD," or "VO CLEAN" is selected for the COSM GUITAR TYPE setting.*

HIGH CUT

* *This appears only when "MATCH DRIVE," "MATCH LEAD," "FAT MATCH," "VO DRIVE," "VO LEAD," or "VO CLEAN" is selected for the COSM GUITAR TYPE setting.*

SPEAKER

The speaker types indicated with a “★” are those added in Version 2.

SP Simulator Type	Cabinet	Speaker Unit	Microphone Setting	Comments
SMALL	Small open-back enclosure	10 inch	On Mic	
MIDDLE	Open-back enclosure	12 inch	On Mic	
JC-120	Open-back enclosure	12 inch (two units)	On Mic	Roland JC-120 Simulation
TWIN ON	Open-back enclosure	12 inch (two units)	On Mic	A setting suitable for CLEAN TWIN
TWIN OFF	Open-back enclosure	12 inch (two units)	Off Mic	A setting suitable for CLEAN TWIN
★ PRO RVB	Open-back enclosure	12 inch	On Mic	A setting suitable for PRO CRUNCH
★ TWEED	Open-back enclosure	10 inch (four units)	On Mic	A setting suitable for TWEED
MATCH ON	Open-back enclosure	12 inch (two units)	On Mic	A setting suitable for MATCH DRIVE
MATCH OFF	Open-back enclosure	12 inch (two units)	Off Mic	A setting suitable for MATCH DRIVE
VO ON	Open-back enclosure	12 inch (two units)	On Mic	A setting suitable for VO DRIVE
VO OFF	Open-back enclosure	12 inch (two units)	Off Mic	A setting suitable for VO DRIVE
BG STACK ON	Large Sealed enclosure	12 inch (two units)	OnMic	A setting suitable for BG Lead
BG STACK OFF	Large sealed enclosure	12 inch (two units)	Off Mic	A setting suitable for BG Lead
MS STACK ON	Large sealed enclosure	12 inch (four units)	On Mic	A setting suitable for MS1959
MS STACK OFF	Large sealed enclosure	12 inch (four units)	Off Mic	A setting suitable for MS1959
★ R-FIER	Large dual stack	12 inch (four units)	Off Mic	A setting suitable for R-FIER
METAL STACK	Large dual stack	12 inch (four units)	Off Mic	
ACOUSTIC	–	–	–	FLAT

EFFECTS

WAH

5 types of “COSM wah” have been added, you can now select from 6 different types of pedal wah.

- **When “PEDAL WAH” is selected as the type**

MODEL

This selects the pedal wah model.

ORIGINAL:

This is the original VG-88 pedal wah sound.

CRY WAH:

This models the sound of the CRY BABY wah pedal popular in the '70s.

VO WAH:

This models the sound of the VOX V846.

FAT WAH:

This a wah sound featuring a bold tone.

LIGHT WAH:

This wah has a refined sound with no unusual characteristics.

7STR WAH:

Wah featuring a broader range of variations for the seven-string guitar. This is very effective when used in combination with the COSM GUITAR pitch shift.

MOD (modulation)

TYPE

DEFRETTER:

This effect allows you to use a conventional guitar to simulate a fretless guitar.

UNI-V:

Although this resembles a phaser effect, it also provides a unique undulation that you can't get with a regular phaser.

- **When “DEFRETTER” is selected as the type**

SENS (sensitivity) [0–100]

This controls the input sensitivity of the defretter.

ATTACK [0–100]

Adjusts the attack of the picking sound.

DEPTH [0–100]

This controls the ratio of the harmonics.

RESO (resonance) [0–100]

This sets the degree of resonance (distinctiveness) of the sound. A higher value results in a sound that is more unique and extraordinary.

TONE [-50–+50]

Adjusts the amount of blurring between the notes.

E.LEVEL (effect level) [0–100]

Adjusts the volume of the defretter sound.

D.LEVEL (direct level) [0–100]

Adjusts the volume of the direct sound.

- **When “UNI-V” is selected as the type**

RATE [0–100, BPM, ♩, -BPM, ♪]

Adjusts the rate of the Uni-V effect.

DEPTH [0–100]

Adjusts the depth of the Uni-V effect.

LEVEL [0–100]

Adjusts the volume of the Uni-V effect.

Chapter 6. Changing the system settings

GK pickup settings

■ Setting the Automatic GK Connection Detect Function

Version 2 includes a function that automatically distinguishes whether or not a GK instrument is connected, while allowing you to switch the internal settings, thus enabling you to use all the functions except COSM GUITAR (including the COSM AMP, effects, tuner, and other features), even if the instrument is only connected to GUITAR INPUT.

* *You should normally use this with the AUTO setting (the default value).*

If this function does not work properly, such as when using a pickup other than the GK-2A, use the following steps to change the setting.

1. Make sure you're in Play page.
If you're not in Play page, press [EXIT] several times.
2. Press [F6] (SYSTEM).
3. Press [F1] (DRIVER).
4. Press [PAGE ►] to access page 4.



5. Rotate [VALUE] to set the value.
AUTO: The GK connection is determined automatically, and switching of the internal settings is enabled.
ON: The settings used for the GK connection remain in effect at all times.
OFF: The settings used for the GUITAR INPUT connection remain in effect at all times.
6. Press [EXIT] several times to return to the Play page.

Chapter 7. Using MIDI

Transmitting/receiving all sound data

■ Receiving settings from an external device (BULK LOAD)

Version 2 allows to receive the bulk dump data in Play page.

1. Make sure you're in Play page.
If you're not in Play page, press [EXIT] several times.
 2. Transmit the bulk data from the external MIDI device.
Every time one patch is received on Version 2, the display shows this patch.
- * *Please use the data dumped from the VG-88 for transmitting the data.*

PEDAL/ASSIGN Parameter List

COSM GUITAR

NYLON II	ATTACK BODY TONE LEVEL
SITAR	PICKUP BODY SENS TONE LEVEL COLOR DECAY BUZZ ATK LEV
WAVE (WAVE SYNTH)	SHAPE SENS ATTACK DECAY LEVEL CUTOFF RESO F.ATTACK F.DECAY F.DEPTH

EFFECTS

FX:DEFRET (DEFRETTTER)	SENS ATTACK DEPTH RESO TONE E.LEVEL D.LEVEL
FX:UNI-V (UNI-V)	RATE DEPTH LEVEL

VG-88 Version 2 PATCH LIST

The new patches indicated with a "★" are those installed in Version 2.

No.	Name	No.	Name	No.	Name
USER 1-1	V-GUITAR	USER 11-1	FatMETAL	USER 21-1	FAT 1959
USER 1-2	AcGt12st	USER 11-2	Ac PIEZO	USER 21-2	TELE DRV
USER 1-3	TEXS ST	USER 11-3	f HOLE	USER 21-3	SPACSTRT
USER 1-4	NYLON II ★	USER 11-4	RICK 12 ★	USER 21-4	OCT SFX
USER 2-1	WAH DRV ★	USER 12-1	DropD -2	USER 22-1	'80s BG
USER 2-2	SITAR ★	USER 12-2	DETUNE12	USER 22-2	FAT BG
USER 2-3	FRETLESS ★	USER 12-3	JAZZBOX ★	USER 22-3	TL+BODY
USER 2-4	ECHO PAD	USER 12-4	BOWED	USER 22-4	SYN LD 2 ★
USER 3-1	PKdNYLON ★	USER 13-1	WAH TL	USER 23-1	'70s LED
USER 3-2	12st+EGt	USER 13-2	ALL E	USER 23-2	TexsLead
USER 3-3	VIOLIN ★	USER 13-3	JAZZ TL	USER 23-3	DarkJAZZ
USER 3-4	ORGAN	USER 13-4	DRV BASS	USER 23-4	Bell Mix
USER 4-1	BG DRV	USER 14-1	MetalWah	USER 24-1	WAH LEAD
USER 4-2	AcGt+BS	USER 14-2	NASH Gt	USER 24-2	FuzzLead
USER 4-3	Raga ★	USER 14-3	BODY 12	USER 24-3	CLEAN 12
USER 4-4	SYN LEAD ★	USER 14-4	STEP SFX	USER 24-4	BASS AMP
USER 5-1	Heavy! ★	USER 15-1	WAH +7	USER 25-1	AngleWAH
USER 5-2	Chord ♪▼ ★	USER 15-2	BANJO	USER 25-2	HARDROCK
USER 5-3	-1OCT ST	USER 15-3	PD SHIFT	USER 25-3	'60sECHO
USER 5-4	BASS DRV	USER 15-4	SlowEcho	USER 25-4	BAMBOO
USER 6-1	RTHM→LD ★	USER 16-1	MTL SOLO		
USER 6-2	CAPO -4	USER 16-2	CAPO 7		
USER 6-3	MTL SLD ⁸⁸ ★	USER 16-3	TL TWIN		
USER 6-4	PAN SFX	USER 16-4	OCTAVE24		
USER 7-1	WoodStoc ★	USER 17-1	CoolLead		
USER 7-2	Anlg SYN ★	USER 17-2	MINI AMP		
USER 7-3	TELE MOD	USER 17-3	OPEN E		
USER 7-4	Em9	USER 17-4	SMOOTH ★		
USER 8-1	LP WAH	USER 18-1	FatBlues		
USER 8-2	12ST AG ⁸⁸ ★	USER 18-2	DRV←→CLN		
USER 8-3	WAVE w ⁸⁸ ★	USER 18-3	STRATCru		
USER 8-4	ROTARY	USER 18-4	12st OCT		
USER 9-1	CHOWAH ★	USER 19-1	OctMetal		
USER 9-2	FLAMENCO ★	USER 19-2	LIP MTL		
USER 9-3	BIG METL ★	USER 19-3	R&R		
USER 9-4	FAT BASS	USER 19-4	BRASS+Gt		
USER 10-1	METAL ST	USER 20-1	LP DRIVE		
USER 10-2	StudioAG	USER 20-2	SMOKER		
USER 10-3	CrunchTL	USER 20-3	BG CRUNC		
USER 10-4	ARPEGGIO	USER 20-4	SLOW ATK		

No.	Name	No.	Name	No.	Name
PRESET 26-1	V-GUITAR	PRESET 40-1	OPEN E	PRESET 54-1	TIGHT MT
PRESET 26-2	AcGt12st	PRESET 40-2	STRATCru	PRESET 54-2	CH DRIVE
PRESET 26-3	TEXS ST	PRESET 40-3	R&R	PRESET 54-3	BEAT DRV
PRESET 26-4	NYLON II ★	PRESET 40-4	BG CRUNC	PRESET 54-4	PEDAL+12
PRESET 27-1	WAH DRV ★	PRESET 41-1	'60sECHO	PRESET 55-1	Chord ♭▼ ★
PRESET 27-2	SITAR ★	PRESET 41-2	PHASE LP	PRESET 55-2	CAPO -4
PRESET 27-3	FRETLESS ★	PRESET 41-3	CRY TELE	PRESET 55-3	Anlg SYN ★
PRESET 27-4	ECHO PAD	PRESET 41-4	HALF DRV	PRESET 55-4	12ST AG ♯
PRESET 28-1	PKdNYLON ★	PRESET 42-1	'60s R&R	PRESET 56-1	FLAMENCO ★
PRESET 28-2	12st+EGt	PRESET 42-2	ST STACK	PRESET 56-2	StudioAG
PRESET 28-3	VIOLIN ★	PRESET 42-3	NATURAL	PRESET 56-3	Ac PIEZO
PRESET 28-4	ORGAN	PRESET 42-4	BLUES MS	PRESET 56-4	DETUNE12
PRESET 29-1	BG DRV	PRESET 43-1	SmallAmp	PRESET 57-1	ALL E
PRESET 29-2	AcGt+BS	PRESET 43-2	TELE TW	PRESET 57-2	NASH Gt
PRESET 29-3	Raga ★	PRESET 43-3	WahCRUNC	PRESET 57-3	BANJO
PRESET 29-4	SYN LEAD ★	PRESET 43-4	EC LEAD	PRESET 57-4	CAPO 7
PRESET 30-1	-1OCT ST	PRESET 44-1	Heavy! ★	PRESET 58-1	BASS DRV
PRESET 30-2	MTL SLD ^{BR} ★	PRESET 44-2	RTHM→ LD ★	PRESET 58-2	PAN SFX
PRESET 30-3	TELE MOD	PRESET 44-3	WoodStoc ★	PRESET 58-3	Em9
PRESET 30-4	WAVE w ▶ ★	PRESET 44-4	LP WAH	PRESET 58-4	ROTARY
PRESET 31-1	JAZZ TL	PRESET 45-1	CHOWAH ★	PRESET 59-1	FAT BASS
PRESET 31-2	BODY 12	PRESET 45-2	METAL ST	PRESET 59-2	ARPEGGIO
PRESET 31-3	PD SHIFT	PRESET 45-3	FatMETAL	PRESET 59-3	RICK 12 ★
PRESET 31-4	TL TWIN	PRESET 45-4	DropD -2	PRESET 59-4	BOWED
PRESET 32-1	SPACSTRT	PRESET 46-1	WAH TL	PRESET 60-1	DRV BASS
PRESET 32-2	TL+BODY	PRESET 46-2	MetalWah	PRESET 60-2	STEP SFX
PRESET 32-3	DarkJAZZ	PRESET 46-3	WAH +7	PRESET 60-3	SlowEcho
PRESET 32-4	CLEAN 12	PRESET 46-4	MTL SOLO	PRESET 60-4	OCTAVE24
PRESET 33-1	JC CLEAN	PRESET 47-1	CoolLead	PRESET 61-1	SMOOTH ★
PRESET 33-2	HARMO 12 ★	PRESET 47-2	FatBlues	PRESET 61-2	12st OCT
PRESET 33-3	American	PRESET 47-3	OctMetal	PRESET 61-3	BRASS+Gt
PRESET 33-4	'60s BOX	PRESET 47-4	LP DRIVE	PRESET 61-4	SLOW ATK
PRESET 34-1	335CUTIN	PRESET 48-1	FAT 1959	PRESET 62-1	OCT SFX
PRESET 34-2	COOLJAZZ	PRESET 48-2	'80s BG	PRESET 62-2	SYN LD 2 ★
PRESET 34-3	E SITAR ★	PRESET 48-3	'70s LED	PRESET 62-3	Bell Mix
PRESET 34-4	ST LINE	PRESET 48-4	WAH LEAD	PRESET 62-4	BASS AMP
PRESET 35-1	SlowGEAR	PRESET 49-1	AngleWAH	PRESET 63-1	BAMBOO
PRESET 35-2	EchoJAZZ	PRESET 49-2	'70s MS	PRESET 63-2	12st 5th
PRESET 35-3	MatchWal ^{II} ★	PRESET 49-3	BOOGIE	PRESET 63-3	CRYSTAL
PRESET 35-4	CLEAN ST	PRESET 49-4	BLUES ♯	PRESET 63-4	RezoBASS
PRESET 36-1	CH JAZZ	PRESET 50-1	MINI AMP	PRESET 64-1	SPACE DS
PRESET 36-2	MildJazz	PRESET 50-2	DRV←→CLN	PRESET 64-2	MildHorn
PRESET 36-3	R+F CUT	PRESET 50-3	LIP MTL	PRESET 64-3	NoizLoop
PRESET 36-4	TwCHORUS	PRESET 50-4	SMOKER	PRESET 64-4	PWM LEAD
PRESET 37-1	LP FRONT	PRESET 51-1	TELE DRV	PRESET 65-1	SoftLead
PRESET 37-2	BRT HALF	PRESET 51-2	FAT BG	PRESET 65-2	DrvSYNTH
PRESET 37-3	MILD TL	PRESET 51-3	TexsLead	PRESET 65-3	GONG ♯
PRESET 37-4	TELE BRT	PRESET 51-4	FuzzLead	PRESET 65-4	VIRUS
PRESET 38-1	CLN-LEAD	PRESET 52-1	HARDROCK		
PRESET 38-2	COMP JC	PRESET 52-2	DROP D		
PRESET 38-3	RICK CLN	PRESET 52-3	REVERSE		
PRESET 38-4	TweedWah ★	PRESET 52-4	JB LEAD		
PRESET 39-1	BIG METL ★	PRESET 53-1	OCT DIST		
PRESET 39-2	CrunchTL	PRESET 53-2	PAF LEAD		
PRESET 39-3	f HOLE	PRESET 53-3	POLYDIST		
PRESET 39-4	JAZZBOX ★	PRESET 53-4	FUZZ BOX		

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>