

K-9 CONTROL CODES

FUNCTION	CODE	PARAMETERS
'COMMAND MODE' MESSAGE.	A0	000 = DISABLE 255 = ENABLE
AIM FRONT WHEEL.	A1	000 = LEFT 127 = FORWARD 255 = RIGHT
WAG TAIL.	A2	000 = OFF 001-015 = # OF WAGS. 020 = LEFT SOLENOID ON 030 = RIGHT SOLENOID ON
CONTROL ANTENNA PROBE.	A3	000 = OFF 001-015 = UP # OF INCHES 020 = ANTENNA UP 030 = ANTENNA DOWN 101-115 = DOWN # OF INCHES
GO FORWARD OR BACKWARD.	A4	000 = STOP 100 = FORWARD 200 = REVERSE
WAIT FOR KEYSTROKE.	A5	000-015 = KEYS 0-F 255 = ANYKEY
FUTURE FUNCTION ON ROM 1	A6	-----
FUTURE FUNCTION ON ROM 1	A7	-----
FUTURE FUNCTION ON ROM 1	A8	-----
FUTURE FUNCTION ON ROM 1	A9	-----
WAIT FOR SPECIFIED NUMBER OF SECONDS.	AA	000-255 seconds
CONTROL MOTORS THROUGH THE KEYPAD.	AC	000
KEY 9 - AIM RIGHT		KEY A - ANTENNA UP
KEY 8 - AIM FORWARD		KEY B - ANTENNA DOWN
KEY 7 - AIM LEFT		KEY C - SAY 'AFFIRMATIVE'
KEY 6 - WAG TAIL RIGHT		KEY D - SAY 'NEGATIVE'
KEY 5 - GO FORWARD		KEY E - SAY 'MASTER'
KEY 4 - WAG TAIL LEFT		KEY F - SAY 'MISTRESS'
KEY 3 - SAY 'EXCUSE ME'		
KEY 2 - GO BACKWARD		
KEY 1 - SAY INTRO SPEECH		
KEY 0 - EXIT		

FUNCTION	CODE	PARAMETERS	
FUNCTION #1 ON ROM B	B1	-----	
FUNCTION #2 ON ROM B	B2	-----	
FUNCTION #3 ON ROM B	B3	-----	
FUNCTION #4 ON ROM B	B4	-----	
FUNCTION #5 ON ROM B	B5	-----	
FUNCTION #6 ON ROM B	B6	-----	
TURN BEEPER ON OR OFF.	BE	000 = OFF 111 = ON	
PRONOUNCE A SINGLE PHONEME.	C0	SEE PAGE 4	
PRONOUNCE A COMPLETE WORD.	C1	SEE PAGE 5	
PRONOUNCE A WORD AND PAUSE.	C2	SEE PAGE 5	
PRONOUNCE A PHONEME AND PAUSE.	C3	SEE PAGE 4	
SAY A PHRASE.	C9	SEE PAGE 3	
SET NOISE FREQUENCY.	CB	127 = OFF 128-255 = NOISE	
SET TONE FREQUENCY.	DA	127 = OFF 128-255 = TONE SEE PAGE 3	
SET TONE AND NOISE VOLUME.	DB	000 = OFF 001-015 = VOLUME	
CONTROL THE TONE GENERATOR THROUGH THE KEYPAD.	DC	000	
KEY A - B	KEY 7 - C	KEY 8 - C#	KEY 9 - D
KEY B - D#	KEY 4 - E	KEY 5 - F	KEY 6 - F#
KEY C - G	KEY 1 - G#	KEY 2 - A	KEY 3 - A#
KEY D - B	KEY E - C	KEY F - C#	KEY 0 - EXIT
PLAY A SHORT TONE AND PAUSE.	DE	128-255 = TONE SEE PAGE 3	
END ENTRY AND EXECUTE PROGRAM.	EE	000	

COMMAND MODE OPTIONS

- A - EXECUTE PROGRAM AGAIN
- B - ERASE CURRENT PROGRAM AND GO TO PROGRAM MODE
- C - CONTINUE ENTRY ON CURRENT PROGRAM
- D(1-9) - SAVE PROGRAM
- E(1-9) - RELOAD AND EXECUTE PROGRAM

PHRASES

001 THE QUEST IS THE QUEST.
002 CONTACT HAS BEEN MADE.
003 10 9 8 7 6 5 4 3 2 1
004 I WANT MY MASTER.
005 PLEASE DON'T LEAVE ME.
006 EXTERMINATE, EXTERMINATE, YOU WILL OBEY.
007 OF COURSE I CAN TALK.
008 GOOD BYE, I WILL SEE YOU LATER.
009 ONLY IF I CAN SEE INSIDE OF YOU.
010 I HAVE A VERY BIG PROBE.
011 WHAT IS YOUR NAME?
012 SHALL WE PLAY A GAME?

TABLE OF MUSICAL NOTES

NOTE	VALUE	NOTE	VALUE
C	135	G	215
C#	143	G#	217
D	147	A	219
D#	151	A#	221
E	159	B	223
F	163	C	225
F#	167	C#	227
G	175	D	228
G#	179	D#	229
A	183	E	231
A#	187	F	232
B	191	F#	233
C	195	G	235
C#	199	G#	236
D	201	A	237
D#	203	A#	238
E	207	B	239
F	209	C	240
F#	212	C#	241

Appendix B - Phonemes for CHATTERBOX

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letter	mnemonic	example	code	letter	mnemonic	example	code
a	AA	ma	24	o	AA	hot	24
	AE	hat	26		OH	low	53
	AO	aught	23		AO	aught	23
	EY	page	20		UX	come	15
	AR	arm	59		OR	store	58
	UX	above	15		UH	book	30
	AIR	air	47		UW2	food	31
b	BB2	rib	63		OW	out	32
	BB	builder	28	OY	boy	5	
c	KK1	can	42	UW1	to	22	
	KK2	sky	41	p	PP	pig	9
ch	KK3	comb	8	qu	KK3-WW	square	8, 46
	CH	chuch	50	r	RR1	real	14
d	DD2	do	33		RR2	brain	39
	DD1	could	21	s	SS	test	55
e	EH	end	7		ZH	pause	38
	EE	see	19	sh	SH	ship	37
	EAR	ear	60	t	TT1	part	17
	ER	letter	51		TT2	two	13
	ERR	err	52	th	TH	thin	29
f	AY	eye	6		DH1	this	18
	FF	food	40		DH2	this	54
g	GG2	got	36	u	UW1	put	22
	GG1	guest	61		UX	up	15
	GG3	wig	34		UH	full	30
h					UW2	rude	31
	HH2	hoe	57	v	VV	vest	35
i	HH1	he	27	w	WW	wool	46
	IH	sit	12		WH	which	48
	AY	size	6	x	KK1-SS	expert	42, 55
j	ERR	fir	52	y	YY1	yes	49
	JH	dodge	10		YY2	yes	25
k	KK3	comb	8		AY	sky	6
	KK2	sky	41	z	ZZ	zoo	43
	KK1	can	42		ZH	azure	38
l	LL	lake	45	Silence		10ms	0
	EL	paddle	62			30ms	1
m	MM	milk	16			50ms	2
n	NN1	thin	11			100ms	3
	NN2	no	56			200ms	4
	NG	anchor	44				

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