

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

A.....	019	EAR.....	071	INDICATE....	119	O.....	195	SPACE.....	218	WE.....	106
ABLE.....	134	EAT.....	152	INN.....	042	OBEDY.....	104	SPEECH.....	215	WEAR.....	056
ABOUT.....	109	EIGHT.....	008	INSERT.....	173	OF.....	110	STOP.....	035	WEIGH.....	237
AFFIRMATIVE.	065	EJECT.....	154	IS.....	092	OFF.....	202	SUM.....	214	WEIGHT.....	240
AFTER.....	135	ELEVEN.....	011	IT.....	122	OH.....	195	T.....	016	WHAT.....	055
ALIEN.....	133	EMPTY.....	151			OLD.....	196	TAIL.....	069	WHEN.....	057
ALL.....	132	EN-.....	252	K.....	023	ON.....	052	TAKE.....	228	WHERE.....	056
AM.....	078	END.....	156	KEY.....	111	ONCE.....	200	TALE.....	069	WHICH.....	245
AND.....	128	ERROR.....	117	KILL.....	113	ONE.....	001	TALK.....	049	WHILE.....	247
ANSWER.....	131	EVER.....	158	KNOT.....	079	ONLY.....	199	TARDIS.....	097	WHITE.....	241
ANTENNA.....	072	EXCUSE.....	100	KNOW.....	064	ORDER.....	197	TEA.....	016	WHO.....	054
ANY.....	129	EXTERMINATE.	050			OTHER.....	198	TEE.....	016	WHY.....	026
ARE.....	024	EYE.....	022	LAST.....	180	OUT.....	043	TEEN.....	015	WIDTH.....	238
AS.....	130			LATER.....	176	OWN.....	195	TEN.....	010	WILL.....	062
AT.....	053	FAST.....	036	LEAVE.....	250	OWN.....	201	TEST.....	096	WIN.....	246
ATE.....	008	FEET.....	047	LEFT.....	033			THE.....	091	WITCH.....	245-
		FIF-.....	014	LESS.....	175	PLAN.....	204	THEIR.....	115	WITH.....	238
B.....	020	FIRST.....	159	LIFE.....	178	PLAY.....	107	THEM.....	230	WOMAN.....	239
BACK.....	136	FIVE.....	005	LIGHT.....	068	PLEASE.....	120	THEN.....	222	WON.....	001
BAD.....	137	FOOT.....	046	LIKE.....	174	PLUS.....	103	THERE.....	115	WOOD.....	244
BE.....	020	FOR.....	004	LINE.....	179	POSITIVE....	067	THESE.....	223	WORD.....	248
BEE.....	020	FORM.....	160	LISTEN.....	177	POWER.....	088	THEY.....	224	WOULD.....	244
BEEN.....	083	FORWARD.....	029	LITTLE.....	181	PROBE.....	205	THEY'RE.....	115	WRITE.....	032
BEND.....	155	FOUR.....	004	LIVE.....	093	PROGRAM.....	125	THING.....	226	Y.....	026
BIG.....	139	FRIEND.....	249	LOGIC.....	182	PULL.....	206	THINK.....	116	YES.....	063
BLACK.....	138	FROM.....	163	LOW.....	039	PUSH.....	112	THIR-.....	013	YOU.....	025
BODY.....	140	FRONT.....	164			PUT.....	203	THIS.....	227	YOUR.....	051
BUT.....	141	FULL.....	161	MACHINE.....	186			THOUGH.....	233	YOUR'RE.....	051
BY.....	142	FUNCTION.....	162	MADE.....	084	QUEST.....	207	THOUSAND....	018	ZERO.....	000
BYE.....	142			MAID.....	084	QUESTION....	208	THREE.....	003		
		GAME.....	108	MAKE.....	188			THREW.....	231		
C.....	021	GET.....	165	MAN.....	183	R.....	024	THROUGH.....	231		
CAME.....	146	GIVE.....	166	MANY.....	184	RACE.....	211	THROW.....	232		
CAN.....	061	GO.....	034	MASTER.....	027	READ.....	209	TIME.....	098		
CAUSE.....	144	GOOD.....	167	ME.....	074	RED.....	210	TO.....	002	O.....	000
CHARGE.....	145			METAL.....	090	REJECT.....	153	TOO.....	002	1.....	001
COARSE.....	058	HAD.....	086	MIGHT.....	190	REVERSE....	030	TURN.....	031	2.....	002
COME.....	147	HAS.....	082	MINUS.....	102	RIGHT.....	032	TWELVE.....	012	3.....	003
COMMAND.....	127	HAVE.....	085	MISTRESS....	087	RITE.....	032-	TWENTY.....	229	4.....	004
COMPUTER....	089	HE.....	171	MODE.....	126	ROBOT.....	077	TWO.....	002	5.....	005
CONTACT.....	081	HEAD.....	070	MORE.....	187	ROUND.....	212	U.....	025	6.....	006
CONTROL.....	143	HEAR.....	168	MOTOR.....	185			UN-.....	234	7.....	007
COULD.....	148	HELLO.....	099	MOVE.....	073	SAME.....	219	UNIT.....	235	8.....	008
COUNT.....	101	HELP.....	172	MUCH.....	189	SEA.....	021	UP.....	040	9.....	009
COURSE.....	058	HER.....	170	MY.....	075	SEE.....	021			10.....	010
		HERE.....	168			SELF.....	213	VERY.....	236	11.....	011
DANCE.....	251	HI.....	038	N.....	252	SENSOR.....	118	VOLT.....	048	12.....	012
DANGER.....	095	HIGH.....	038	NAME.....	123	SEVEN.....	007	WAIT.....	240	20.....	229
DEGREE.....	044	HIS.....	169	NEGATIVE....	066	SHALL.....	105	WANT.....	124	THIR-.....	013
DETECT.....	114	HOW.....	059	NEVER.....	157	SHE.....	216	WAR.....	243	FIF-.....	014
DEW.....	060	HOW.....	059	NINE.....	009	SHOW.....	221	WARE.....	056	-TEEN.....	015
DID.....	149	HUMAN.....	080	NJ.....	064	SIDE.....	220	WARNING....	094	-TY.....	016
DO.....	060	HUNDRED....	017	NO.....	064	SIX.....	006	WAS.....	242	HUNDRED....	017
DOCTOR.....	028	I.....	022	NOSE.....	192	SLOW.....	037	WAY.....	237	THOUSAND....	018
DOG.....	076	IF.....	121	NOT.....	079	SO.....	217				
DON'T.....	150	IN.....	042	NOW.....	193	SOME.....	214				
DOWN.....	041	INCH.....	045	NUMBER.....	194						

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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