

Project Listings

Project #	Description	Page #	Project #	Description	Page #	Project #	Description	Page #
1	Electric Light & Switch	8	35	Motor Space Light	20	69	Space War Siren	34
2	DC Motor & Switch	8	36	Space Battle (II)	21	70	Quiet Water Alarm	34
3	Sound Activated Switch	9	37	Silent Space Battle	21	71	Light-Controlled Lamp	35
4	Adjusting Sound Level	9	38	Periodic Sounds	21	72	Voice-Controlled Lamp	35
5	Lamp & Fan in Series	10	39	Blinking Double Flashlight	21	73	Motor-Controlled Lamp	35
6	Lamp & Fan in Parallel	10	40	Motor-Controlled Sounds	22	74	Light-Controlled LED	36
7	Light Emitting Diode	11	41	More Motor Sounds	22	75	Sound-Controlled Time Delay LED	36
8	One Direction for LED	11	42	More Motor Sounds (II)	22	76	Motor-Controlled Time Delay LED	36
9	Conduction Detector	12	43	More Motor Sounds (III)	22	77	Space War Flicker LED	37
10	Space War Alarm Combo	12	44	More Motor Sounds (IV)	22	78	Music AND Gate	37
11	Flying Saucer	13	45	Light-Controlled Flicker	23	79	Flash and Tone	37
12	Decreasing Saucer Lift	13	46	More Sound Effects	23	80	Lamp, Speaker & Fan in Parallel	38
13	Two-Speed Fan	14	47	This OR That	24	81	Pencil Alarm	38
14	The Fuse	14	48	This AND That	24	82	Pencil Alarm Variants	38
15	Musical Doorbell	15	49	Neither This NOR That	25	83	Fun with the Alarm IC	39
16	Momentary Alarm	15	50	NOT This AND That	25	84	Motor Sounds Combo	39
17	Alarm Circuit	16	51	Reflection Detector	26	85	Motor Sounds Combo (II)	39
18	Laser Gun	16	52	Quieter Reflection Detector	26	86	Music Alarm Combo	40
19	Space War	17	53	Flashing Laser Light with Sound	27	87	Bomb Sound	40
20	Light Switch	17	54	Space War Flicker	27	88	Bomb Sound (II)	40
21	Paper Space War	17	55	Spinning Rings	28	89	Light-Controlled LED (II)	41
22	Light Police Siren	18	56	Strobe the House Lights	28	90	Touch Light	41
23	More Loud Sounds	18	57	Race Game	29	91	Touch Sound	41
24	More Loud Sounds (II)	18	58	Using Parts as Conductors	29	92	Water Space War	42
25	More Loud Sounds (III)	18	59	Spin Draw	30	93	Water Space War (II)	42
26	More Loud Sounds (IV)	18	60	Space War Flicker Motor	30	94	Human Space War	42
27	Clap Sounds	19	61	Light-Controlled Sounds	31	95	Noisier Water Space War	43
28	More Clap Sounds	19	62	Light-Controlled Sounds (II)	31	96	Light/Water Space War	43
29	More Clap Sounds (II)	19	63	Light-Controlled Sounds (III)	31	97	OR/AND Space War Light	43
30	More Clap Sounds (III)	19	64	Light-Controlled Sounds (IV)	31	98	Simple Water Alarm	44
31	More Clap Sounds (IV)	19	65	Light-Controlled Sounds (V)	31	99	Simple Salt Water Alarm	44
32	Voice Light Diode	20	66	Electronic Bombing Game	32	100	Ambulance Water Alarm	44
33	Voice Control	20	67	Quiet Zone Game	33	101	Ambulance Contact Alarm	44
34	Motor Space Sounds	20	68	Space War Music Combo	33			

Project Listings

Project #	Description	Page #	Project #	Description	Page #	Project #	Description	Page #
102	Batteries in Series	8	136	High Frequency Touch Buzzer	19	170	PNP Light Control	27
103	Batteries in Parallel	8	137	High Frequency Water Buzzer	19	171	PNP Dark Control	27
104	Spacey Fan	9	138	Mosquito	19	172	Red & Green Control	28
105	Two-Transistor Light Alarm	9	139	High Sensitivity Voice Doorbell	20	173	Current Controllers	28
106	Light-Controlled Alarm	9	140	Louder Doorbell	20	174	Current Equalizing	28
107	Automatic Street Lamp	10	141	Very Loud Doorbell	20	175	Battery Polarity Tester	28
108	Voice-Controlled Rays of Light	10	142	Doorbell with Button	20	176	Blow Off a Doorbell	29
109	Blowing Off the Electric Light	10	143	Darkness Announcer	20	177	Blow Off a Candle	29
110	Adjustable Tone Generator	11	144	Musical Motion Detector	20	178	Blow On a Doorbell	29
111	Photosensitive Electronic Organ	11	145	Radio Music Alarm	21	179	Blow On a Candle	29
112	Electronic Cicada	11	146	Daylight Music Radio	21	180	Screaming Fan	30
113	Light & Sounds	12	147	Night Music Radio	21	181	Whining Fan	30
114	More Light & Sounds	12	148	Night Gun Radio	21	182	Light Whining	30
115	More Light & Sounds (II)	12	149	Radio Gun Alarm	21	183	More Light Whining	30
116	More Light & Sounds (III)	12	150	Daylight Gun Radio	21	184	Motor Than Won't Start	30
117	More Light & Sounds (IV)	12	151	Blow Off a Space War	22	185	Whiner	31
118	Motor Speed Detector	13	152	Series Lamps	22	186	Lower Pitch Whiner	31
119	Old-Style Typewriter	13	153	Parallel Lamps	22	187	Hummer	31
120	Space War Sounds	14	154	Fire Fan Symphony	23	188	Adjustable Metronome	31
121	Space War Sounds Controlled by Light	14	155	Fire Fan Symphony (II)	23	189	Quiet Flasher	31
122	Space War Radio	15	156	Fan Symphony	23	190	Hissing Foghorn	32
123	The Lie Detector	15	157	Fan Symphony (II)	23	191	Hissing & Clicking	32
124	NPN Amplifier	16	158	Police Car Symphony	24	192	Video Game Engine Sound	32
125	PNP Amplifier	16	159	Police Car Symphony (II)	24	193	Light Alarm	33
126	Sucking Fan	17	160	Ambulance Symphony	24	194	Brighter Light Alarm	33
127	Blowing Fan	17	161	Ambulance Symphony (II)	24	195	Lazy Fan	33
128	PNP Collector	17	162	Static Symphony	25	196	Laser Light	33
129	PNP Emitter	17	163	Static Symphony (II)	25	197	Water Alarm	34
130	NPN Collector	18	164	Capacitors in Series	25	198	Radio Announcer	34
131	NPN Emitter	18	165	Capacitors in Parallel	25	199	Pitch	35
132	NPN Collector - Motor	18	166	Water Detector	26	200	Pitch (II)	35
133	NPN Emitter - Motor	18	167	Salt Water Detector	26	201	Pitch (III)	35
134	Buzzing in the Dark	19	168	NPN Light Control	27	202	Flooding Alarm	35
135	Touch Buzzer	19	169	NPN Dark Control	27	203	Make Your Own Battery	36

Project Listings

Project #	Description	Page #	Project #	Description	Page #	Project #	Description	Page #
204	Make Your Own Battery (II)	36	238	Trombone	48	272	Photoresistor Control	61
205	Make Your Own Battery (III)	36	239	Race Car Engine	48	273	Microphone Control	61
206	Tone Generator	37	240	Power Amplifier	49	274	Pressure Alarm	62
207	Tone Generator (II)	37	241	Feedback Kazoo	49	275	Power Microphone	62
208	Tone Generator (III)	37	242	AM Radio	50	276	LED Fan Rotation Indicator	63
209	Tone Generator (IV)	37	243	Fire Engine Symphony	51	277	Space War Sounds with LED	63
210	More Tone Generator	38	244	Fire Engine Symphony (II)	51	278	Sound Mixer	64
211	More Tone Generator (II)	38	245	Vibration or Sound Indicator	51	279	Sound Mixer Fan Driver	64
212	More Tone Generator (III)	38	246	Two-Finger Touch Lamp	52	280	Electric Fan Stopped by Light	65
213	Music Radio Station	39	247	One-Finger Touch Lamp	52	281	Motor & Lamp	65
214	Alarm Radio Station	39	248	Space Battle	53	282	Start-Stop Delay	66
215	Standard Transistor Circuit	39	249	Space Battle (II)	53	283	Mail Notifying System	66
216	Motor & Lamp by Sound	40	250	Multi-Speed Light Fan	53	284	Mail Notifying Electronic Bell	67
217	Fading Siren	40	251	Light & Finger Light	53	285	Mail Notifying Electronic Lamp	67
218	Fast Fade Siren	40	252	Storing Electricity	54	286	Twice-Amplified Oscillator	67
219	Laser Gun with Limited Shots	41	253	Lamp Brightness Control	54	287	Quick Flicking LED	67
220	Symphony of Sounds	41	254	Electric Fan	54	288	AM Radio with Transistors	68
221	Symphony of Sounds (II)	41	255	Radio Music Burglar Alarm	55	289	AM Radio (II)	68
222	Transistor Amplifiers	42	256	Light Dimmer	55	290	Music Amplifier	69
223	Pressure Meter	42	257	Motion Detector	56	291	Delayed Action Lamp	69
224	Resistance Meter	42	258	Fan Modulator	56	292	Delayed Action Fan	69
225	Auto-Off Night-Light	43	259	Oscillator 0.5 - 30Hz	57	293	Police Siren Amplifier	70
226	Discharging Caps	43	260	Sound Pulse Oscillator	57	294	Lasting Doorbell	70
227	Changing Delay Time	43	261	Motion Detector (II)	57	295	Lasting Clicking	70
228	Morse Code Generator	44	262	Motor Rotation	58	296	Leaky Capacitor	71
229	LED Code Teacher	44	263	Motor Delay Fan	58	297	Transistor Fading Siren	71
230	Ghost Shriek Machine	44	264	Motor Delay Fan (II)	58	298	Fading Doorbell	71
231	LED & Speaker	44	265	High Pitch Bell	59	299	Blowing Space War Sounds	72
232	Dog Whistle	44	266	Steamboat Whistle	59	300	Adjustable Time Delay Lamp	72
233	Mind Reading Game	45	267	Steamship	59	301	Adjustable Time Delay Fan	72
234	Enhanced Quiet Zone Game	46	268	Steamship Horn	59	302	Adjustable Time Delay Lamp (II)	73
235	Capacitor Charge & Discharge	46	269	Noise-Activated Burglar Alarm	60	303	Adjustable Time Delay Fan (II)	73
236	Sound Wave Magic	47	270	Motor-Activated Burglar Alarm	60	304	Watch Light	73
237	Space War Amplifier	47	271	Light-Activated Burglar Alarm	60	305	Delayed Bedside Fan	73

Project Listings

Project #	Description	Page #	Project #	Description	Page #	Project #	Description	Page #
306	AM Radio	8	340	Music Meter	18	374	Display Letter "e"	28
307	Adjustable Volume FM Radio	8	341	LED & Relay	19	375	Display Letter "h"	28
308	Playback & Record	9	342	Manual 7 Second Timer	19	376	Display Letter "o"	28
309	Playing Music	9	343	Half Wave Rectifier Circuit	20	377	Space War Alarm by SCR	29
310	Light-Controlled Music	9	344	Half Wave Rectifier Circuit (II)	20	378	Light Space War Alarm	29
311	Touch-Controlled Music	9	345	LED vs. Diode	20	379	Alarm by SCR	29
312	Power Amplified Playing Music	10	346	Current & Resistance	20	380	Light & Alarm IC	29
313	Power Playback & Record	10	347	Telegraph	21	381	Delay Light	30
314	Power Light-Controlled Music	10	348	Mosquito Sound	21	382	Delay Fan	30
315	Power Touch-Controlled Music	10	349	Mosquito Sound (II)	21	383	Delay Fan (II)	30
316	FM Radio	11	350	Mosquito Sound (III)	21	384	Recording LED Indicator	31
317	Mega Circuit	11	351	Touch-Control Mosquito Sound	21	385	Playback & Record with Meter	31
318	SCR 2.5V Bulb	12	352	Bulb & Relay	22	386	Alarm Light	32
319	SCR & Motor	12	353	Relay Buzzer	22	387	Alarm Light (II)	32
320	Music Alarm	13	354	Transistor Timer	23	388	Night Police Car	33
321	Light-Music Alarm	13	355	Light-Controlled Relay	23	389	Night Machine Gun	33
322	Light-Controlled SCR	13	356	Bulb Alert Relay	23	390	Night Fire Engine	33
323	3mA Meter	14	357	Adjustable Light Control	24	391	Night Ambulance	33
324	0-3V Meter	14	358	Meter Deflection	24	392	Daytime Light Police Car	34
325	Function of adjustable resistor	15	359	AC to DC Current	25	393	Daytime Light Machine Gun	34
326	Function of Photoresistor	15	360	Current Meter	25	394	Daytime Light Fire Engine	34
327	Meter Deflect by Motor	16	361	Buzzer, Relay, & Transformer	26	395	Daytime Light Ambulance	34
328	SCR 6V Bulb	16	362	Buzzer & Relay	26	396	Flashing 8	35
329	Principle of Segment LED	17	363	Display Capital Letter "F"	27	397	Flashing 8 with Sound	35
330	Display #1	17	364	Display Capital Letter "H"	27	398	Musical Space War	35
331	Display #2	17	365	Display Capital Letter "P"	27	399	Electronic Noisemaker	36
332	Display #3	17	366	Display Capital Letter "S"	27	400	Electronic Noisemaker (II)	36
333	Display #4	17	367	Display Capital Letter "U"	27	401	Bee	36
334	Display #5	18	368	Display Capital Letter "C"	27	402	Bee (II)	36
335	Display #6	18	369	Display Capital Letter "E"	27	403	Bee (III)	36
336	Display #7	18	370	Display "."	27	404	Oscillator Sound	37
337	Display #8	18	371	Display Letter "b"	28	405	Oscillator Sound (II)	37
338	Display #9	18	372	Display Letter "c"	28	406	Oscillator Sound (III)	37
339	Display #0	18	373	Display Letter "d"	28	407	Oscillator Sound (IV)	37

Project Listings

Project #	Description	Page #	Project #	Description	Page #	Project #	Description	Page #
408	Oscillator Sound (V)	37	443	Flashing "A & J"	46	478	Variable Oscillator (II)	53
409	Transistor Tester	38	444	Alarm Timer	46	479	Variable Oscillator (III)	53
410	Adjustable Voltage Divider	38	445	Alarm Timer (II)	46	480	Variable Oscillator (IV)	53
411	Automatic Display Capital Letter "C"	39	446	Alarm Timer (III)	46	481	Photo Variable Resistor	53
412	Automatic Display Capital Letter "E"	39	447	Bird Sounds	47	482	Variable Whistle Chip Oscillator	53
413	Automatic Display Capital Letter "F"	39	448	Bird Sounds (II)	47	483	Slow Adjusting Tone	53
414	Automatic Display Capital Letter "H"	39	449	Bird Sounds (III)	47	484	Slow Adjusting Tone (II)	53
415	Automatic Display Capital Letter "P"	39	450	Bird Sounds (IV)	47	485	Fixed-Current Path	54
416	Automatic Display Capital Letter "S"	39	451	Bird Sounds (V)	47	486	Simple Illumination Meter	54
417	Automatic Display Capital Letter "U"	39	452	Touch-Control Bird Sound	47	487	LED Voltage Drop	55
418	Automatic Display Capital Letter "L"	39	453	Motor Sound Recording	48	488	Open/Closed Door Indicator	55
419	Whistle Chip Sounds	40	454	Motor Sound Indicator	48	489	Hand-Control Meter	56
420	Whistle Chip Sounds (II)	40	455	Relay & Buzzer	49	490	Light-Control Meter	56
421	Whistle Chip Sounds (III)	40	456	Relay & Speaker	49	491	Electric-Control Meter	56
422	Whistle Chip Sounds (IV)	40	457	Relay & Lamp	49	492	Sound-Control Meter	56
423	Whistle Chip Sounds (V)	40	458	Electronic Cat	50	493	Fixed-Voltage Divider	57
424	Whistle Chip Sounds (VI)	40	459	Electronic Cat (II)	50	494	Resistor Measurement	57
425	LED Music	41	460	Electronic Cat (III)	50	495	Automatic Display Letter "b"	58
426	Light-Controlled LED Time Delay	41	461	Electronic Cat (IV)	50	496	Automatic Display Letter "c"	58
427	Touch-Controlled LED Time Delay	41	462	Buzzer Cat	50	497	Automatic Display Letter "d"	58
428	Alarm Recorder	42	463	Buzzer Cat (II)	50	498	Automatic Display Letter "e"	58
429	Alarm Recorder (II)	42	464	Buzzer Cat (III)	50	499	Automatic Display Letter "h"	58
430	Machine Gun Recorder	42	465	Lazy Cat	50	500	Automatic Display Letter "o"	58
431	Time Delay 1-7 Seconds	43	466	Meter Deflection (II)	51	501	Hand-Control Display 1 & 4	59
432	Time Delay	43	467	Automatic Display #1	51	502	Hand-Control Display 1 & 0	59
433	Manual 7 Second Timer (II)	44	468	Automatic Display #2	51	503	Hand-Control Display 1 & 7	59
434	15 Second Alarm	44	469	Automatic Display #3	52	504	Hand-Control Display 1 & 8	59
435	Flashing "1 & 2"	45	470	Automatic Display #4	52	505	Hand-Control Display 1 & 9	59
436	Flashing "3 & 4"	45	471	Automatic Display #5	52	506	Monitor Capacitor Charging & Discharging	60
437	Flashing "5 & 6"	45	472	Automatic Display #6	52	507	Hand-Control Space Meter	60
438	Flashing "7 & 8"	45	473	Automatic Display #7	52	508	Rhythm Swinging Meter	61
439	Flashing "9 & 0"	45	474	Automatic Display #8	52	509	Police Car Sound with Whistle Chip	61
440	Flashing "b & c"	46	475	Automatic Display #9	52	510	Fire Engine Sound with Whistle Chip	61
441	Flashing "d & e"	46	476	Automatic Display #0	52	511	Ambulance Sound with Whistle Chip	61
442	Flashing "h & o"	46	477	Variable Oscillator	53			