

MAIN MODULE

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
Resistors				
R2	10 K Ohm 1%	C 8260-9		
R4	10.5K Ohm 1%	C 4497-1		
R7	43 K Ohm	C 4167-0		
R8	75 K Ohm	C 5702-3		
R9	3.3K Ohm	C 2629-1		
R16	3.3K Ohm	C 2629-1		
R17	75 K Ohm	C 5702-3		
R18	43 K Ohm	C 4167-0		
R10	N/A			
R19	2.7 Ohm .5W	C 2857-8		
R101 R201	1.02 K Ohm 1%	C 6086-0		
R102 R202	510 Ohm	C 4226-4		
R103 R203	20.5 K Ohm 1%	C 8416-7		
R104 R204	2.7K Ohm	C 5168-7		
R105 R205	2.7K Ohm	C 5168-7		
R106 R206	12K Ohm	C 2878-4		
R107 R207	68 K Ohm	C 3620-9		
R108 R208	820 K Ohm	C 3301-6		
R109 R209	68 K Ohm	C 6079-5		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
R110 R210	68 K Ohm	C 3620-9		
R111 R211	12K Ohm	C 2878-4		
R112 R212	51 K Ohm	C 2881-8		
R113 R213	4.7K Ohm	C 3939-3		
R114 R214	4.7K Ohm	C 3939-3		
R115 R215	510 K Ohm	C 4226-4		
R116 R216	3.3 M Ohm	C 4237-1		
R117 R217	47 K Ohm	C 2880-0		
R118 R218	270 Ohm .25W	C 7780-7		
R119 R219	634 Ohm ..25W	C 6298-1		
R120 R220	270 Ohm ..25W	C 7780-7		
R121 R221	100K Ohm Trim Pot	C 5062-2		
R122 R222	270 K Ohm	C 2885-9		
R123 R223	20 K Ohm	C 5057-2		
R124 R224	6.8K Ohm	C 5166-1		
R125 R225	100 Ohm	C 7782-3		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
R126 R226	100 Ohm	C 7782-3		
R127 R227	6.8K Ohm	C 5166-1		
R128 R228	10 K Ohm	C 2631-7		
R129 R229	100 K Ohm	C 2883-4		
R130 R230	100 K Ohm	C 2883-4		
R131 R231	10 K Ohm	C 2631-7		
R132 R232	100K Ohm Trim Pot	C 5062-2		
R133 R233	270 K Ohm	C 2885-9		
R134 R234	20 K Ohm	C 5057-2		
R135 R235	100 Ohm	C 2872-7		
R136 R236	6.8K Ohm	C 5166-1		
R137 R237	100 Ohm	C 7782-3		
R138 R238	6.8K Ohm	C 5166-1		
R139 R239	820 Ohm	C 3301-6		
R140 R240	68 Ohm	C 6079-5		
R141 R241	150 K Ohm	C 4216-5		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
R142 R242	150 K Ohm	C 4216-5		
R143 R243	100 K Ohm	C 2883-4		
R144 R244	100 K Ohm	C 2883-4		
R145 R245	3.3 K Ohm	C 4237-1		
R146 R246	10 K Ohm	C 2631-7		
R147 R247	200 Ohm .5W	C 7781-5		
R148 R248	2.7K Ohm	C 5168-7		
R149 R249	200 Ohm .5W	C 7781-5		
R150 R250	2.7K Ohm	C 5168-7		
R151 R251	10 K Ohm	C 2631-7		
R152 R252	12K Ohm	C 2878-4		
R153 R253	Ø Ohm JMPR	C 5868-2		
R154 R254	121 K Ohm 1%	C 8261-7		
R155 R255	47 K Ohm	C 2880-0		
R156 R256	1.3K Ohm	C 3144-0		
R157 R257	1.3K Ohm	C 3144-0		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
R158 R258	9.1K Ohm	C 5878-1		
R159 R259	1 K Ohm	C 2627-5		
R160 R260	10 K Ohm 1%	C 4859-2		
R161 R261	47 Ohm	C 2528-5		
R162 R262	47 Ohm	C 2528-5		
R163 R263	121 K Ohm 1%	C 8261-7		
R164 R264	10 K Ohm 1%	C 4859-2		
R165 R265	121 K Ohm 1%	C 8261-7		
R166 R266	3.3 M Ohm	C 4237-1		
R167 R267	1K Ohm 1%	C 4850-1		
R168 R268	953 Ohm 1%	C 6317-9		
R170 R270	1K Ohm 1%	C 4850-1		
R171 R271	953 Ohm 1%	C 6317-9		
R173 R273	10 K Ohm 1%	C 4859-2		
R174 R274	24.9 K Ohm 1%	C 7155-2		
R175 R275	6.19 K Ohm 1%	C 3688-6		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
R176 R276	24.9 K Ohm 1%	C 7155-2		
R179 R279	1.3 K Ohm	C 3144-0		
R180 R280	470 Ohm	C 2626-7		
R181 R281	270 Ohm	C 2885-9		
R182 R282	22 Ohm	C 4479-9		
R183 R283	2.4K Ohm	C 3616-7		
R184 R284	470 K Ohm	C 4225-6		
R185 R285	2.4K Ohm	C 3616-7		
R186 R286	2.7 M Ohm .25W	C 2634-1		
R187 R287	36 K Ohm	C 4865-9		
R188 R288	36 K Ohm	C 4865-9		
R189 R289	27 K Ohm	C 5165-3		
R190 R290	2 M Ohm	C 3199-4		
R191 R291	33K Ohm	C 4346-0		
R192 R292	10 K Ohm	C 2631-7		
R193 R293	10 K Ohm	C 2631-7		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
R194 R294	20 K Ohm	C 5046-5		
R195 R295	47 Ohm	C 2528-5		
R196 R296	4.7 K Ohm	C 3939-3		
R197 R297	10 K Ohm	C 2631-7		
R198 R298	4.7 K Ohm	C 3939-3		
R199 R299	10 K Ohm	C 2631-7		
R500 R600	100 K Ohm	C 4216-5		
R501 R601	100 K Ohm	C 4216-5		
R502 R602	100 K Ohm	C 4216-5		
R503 R603	47 Ohm	C 2528-5		
R504 R604	470 K Ohm	C 4225-6		
R505 R605	470 K Ohm	C 4225-6		
R506 R606	1.5 K Ohm	C 2876-8		
R507 R607	470 Ohm	C 2626-7		
R508 R608	1 M Ohm	C 3198-6		
R509 R609	4.99 K Ohm 1%	C 3686-0		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
R510 R610	4.99 K Ohm 1%	C 3686-0		
R511 R611	4.99 K Ohm 1%	C 3686-0		
R512 R612	100 Ohm CMR Adjust	C 6173-6		
R513 R613	4.99 K Ohm 1%	C 3686-0		
R514 R614	24 Ohm 5W	C 7340-0		
Resistor Networks				
N101 N201	Resistor Network	D 6081-0		
N102 N202	Resistor Network	D 6082-8		
Capacitors				
C1	1000 μ f 35V	C 4303-1		
C2	470 μ f 35V	C 3913-8		
C6	.01 μ f 100V	C 6806-1		
C100 C200	100 μ f 16V NP	C 4148-0		
C101 C201	47pf MICA	C 6812-9		
C103 C203	.022 μ f 100V	C 6805-3		
C104 C204	.022 μ f 100V	C 6805-3		
C105 C205	47pf 100V	C 6812-9		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
C106 C206	47pf 100V	C 6812-9		
C107 C207	.1µf 50V	C 6804-6		
C108 C208	12pf 100V	C 6814-5		
C109 C209	.002µf 100V	C 7613-0		
C110 C210	2.2µf 50V	C 5362-6		
C111 C211	.1µf 50V	C 6804-6		
C112 C212	.12µf 50V	C 6803-8		
C113 C213	.47µf 50V	C 6802-0		
C114 C214	100µf 16V VERT	C 3729-8		
C115 C215	100µf 16V VERT	C 3729-8		
C116 C216	.47µf 50V	C 6802-0		
C117 C217	.12µf 50V	C 6803-8		
C118 C218	12pf 100V	C 6814-5		
C119 C219	.47µf 50V	C 6802-0		
C120 C220	.1µf 50V	C 6804-6		
C122 C222	100pf 100V	C 6811-1		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
C123 C223	180 pf 100V	C 6810-3		
C124 C224	47pf 100V	C 6812-9		
C129 C229	47pf 100V	C 6812-9		
C130 C230	27pf 100V	C 6813-7		
C133 C233	12pf 100V	C 6814-5		
C134 C234	.022 μ f 100V	C 6805-3		
C135 C235	.022 μ f 100V	C 6805-3		
C136 C236	470pf 100V	C 6808-7		
C137 C237	470pf 100V	C 6808-7		
C138 C238	27 pf 100V	C 6813-7		
C139 C239	27 pf 100V	C 6813-7		
C140 C240	47pf 100V	C 6812-9		
C141 C241	47pf 100V	C 6812-9		
C144 C244	100 μ f 16V	C 4148-0		
C145 C245	47 pf 100V	C 6812-9		
C146 C246	47 pf 100V	C 6812-9		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
C147 C247	.01 μ f 50V	C 6804-6		
C148 C248	180pf 100V	C 6810-3		
C149 C249	470pf 100V	C 6808-7		
C150 C250	.022 μ f 100V	C 6805-3		
C151 C251	.01 μ f 100V	C 6806-1		
C152 C252	220pf 100V	C 6809-5		
C153 C254	.1 μ f 250V	C 5243-8		
C154 C255	.1 μ f 50V	C 6804-6		
C156 C256	.1 μ f 250V	C 5243-8		
C157 C257	27 pf 250V	C 6813-7		
C158 C258	.01 μ f 50V	C 6804-6		
C159 C259	.1 μ f 100V	C 7706-2		
Integrated Circuits				
U2	MC7815CT	C 5095-2		
U2	MC7915CT	C 5096-0		
U100 U200	UPA75HA	C 6911-9		
U101 U201	LM339N	C 4345-2		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
U102 U202	LM339N	C 4345-2		
U1203 U203	UPA76HA	C 6910-1		
U104 U204	MC34084P	C 6900-2		
Transistors				
Q100 Q200	2N3859A	D 2961-7		
Q101 Q201	MPSA93 PNP	C 3578-9		
Q102 Q202	MPSA43/A42	C 3810-6		
Q103 Q203	PN4250A	C 3786-8		
Q104 Q204	2N4125 PNP	C 3625-8		
Q105 Q205	MPSA93 PNP	C 3578-9		
Q106 Q206	2N4125 PNP	C 3625-8		
Q107 Q207	PN4250A	C 3786-8		
Q108 Q208	2N3859A	D 2961-7		
Q109 Q209	2N3859A	D 2961-7		
Q110 Q210	MPSA43/A42	C 3810-6		
Q111 Q211	2N3859A	D 2961-7		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
Q112 Q212	2N4125 PNP	C 3625-8		
Q113 Q213	2N4125 PNP	C 3625-8		
Q115 Q215	MPS8097 (ALTMPSA18)	D 2962-5		
Q116 Q216	PN4250A	C 3786-8		
Q117 Q217	2N3859A	D 2961-7		
Q118 Q218	2N3859A	D 2961-7		
Q119 Q219	2N4125 PNP	C 3625-8		
Q120 Q220	2N4125 PNP	C 3625-8		
Q121 Q221	2N4123	C 7458-0		
Q122 Q222	2N4123	C 7458-0		
Diodes				
D1	1N4004	C 2851-1		
D2	1N4004	C 2851-1		
D3	1N4004	C 2851-1		
D4	1N4004	C 2851-1		
D5	1N4004	C 2851-1		
D6	1N4004	C 2851-1		
D7	1N4004	C 2851-1		
D9	1N3070	C 5061-4		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
D108 D208	1N4148	C 3181-2		
D109 D209	1N4148	C 3181-2		
D110 D210	1N4148	C 3181-2		
D111 D211	1N3070	C 5061-4		
D112 D212	1N4148	C 3181-2		
D113 D213	1N4148	C 3181-2		
D120 D220	1N4148	C 3181-2		
D121 D221	1N4148	C 3181-2		
D122 D222	1N4148	C 3181-2		
D123 D223	1N3070	C 5061-4		
D124 D224	1N4148	C 3181-2		
D125 D225	1N4148	C 3181-2		
D126 D226	1N3070	C 5061-4		
D127 D227	1N3070	C 5061-4		
D128 D228	1N4148	C 3181-2		

MAIN MODULE (CONT)

Circuit Designation	Q42837-7		Description	Part #
	Description	Part #		
MISC.	6X32 Hex Nut	C 1889-2		
	6-32 X .50 RDHD	C 2176-3		
	IC Socket, 14Pin	C 3450-1		
	IC Socket,16Pin	C 4508-5		
	TO220 Heat Sink	C 5341-0		
	#6 INT.Star Washer	C 5594-4		
S2	Ground Lift Switch	C 7363-2		
S3	Sensitivity Switch	C 7363-2		
S4	Dual/Mono Switch	C 6781-6		
	3POS .Header	C 7526-4		
	10" Ribbon Cable	D 6619-7		
	6" Ribbon Cable	D 6620-5		
	Circuit Board	D 7561-0		
	.25 Phone Jack	C 6777-4		
	Phone Jack Cover	C 6778-2		

MAIN MODULE (CONT)

Part No	Description	Part No	Description	Part No	Description
		1-1001	...		
		1-1002	...		
		1-1003	...		
		1-1004	...		
		1-1005	...		
		1-1006	...		
		1-1007	...		
		1-1008	...		
		1-1009	...		
		1-1010	...		
		1-1011	...		
		1-1012	...		
		1-1013	...		
		1-1014	...		
		1-1015	...		
		1-1016	...		
		1-1017	...		
		1-1018	...		
		1-1019	...		
		1-1020	...		