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Magnum S3 Parts List

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Magnum S3 Parts List

= Copper Side

PARTS ON MAIN PCB

CAPACITOR

REF #	Description	Part #
C001	Cer. SL 10PF 1 D	CDC-50SL-100D
#C002	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
#C003	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
#C004	Cer. Chip Cap. 0805 CH 100pF 1 S	CC0805-5C-101J
#C005	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
#C006	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
#C007	Cer. Chip Cap. 0805 X7R 0.001uF 1 S	CC0805-5X-102K
#C008	Cer. Chip Cap. 0805 CG 82pF 1 S	CC0805-5C-820J
C009	Cer. YF 0.01uF 1 D	CDC-50YF-103Z
C010	Electrolytic 0.47uF/50V 1 D	ECS-50R05-U47M
#C011	Cer. Chip Cap. 0805 CG 330pF 1 S	CC0805-5C-331J
C012	Electrolytic 10uF/25V 1 D	ECS-25R05-100M
C013	Polyester Film Cap 50V 0.0022uF 1 D	PFC-50P3-222K
C014	Cer. YF 0.01uF 1 D	CDC-50YF-103Z
#C015	Cer. Chip Cap. 0805 CG 330pF 1 S	CC0805-5C-331J
#C016	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
#C017	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
C018	Polyestor 0.047uF/50V 1 D	PFC-50P5-473K
C019	Electrolytic 10uF/25V 1 D	ECS-25R05-100M
C020	Electrolytic 10uF/25V 1 D	ECS-25R05-100M
C021	Cer. SL 560PF 1 D	CDC-50SL-561J
#C022	Cer. Chip Cap. 0805 CH 68pF 1 S	CC0805-5C-680J
C023	Cer. Disc Cap.25V YF 0.047uF +80-20% 1 D	CDC-25YF-473Z
C024	Electrolytic 1uF/50V 1 D	ECS-50R05-1U0M
C025	Cer. CH 15PF 1 D	CDC-50CH-150J
C026	Electrolytic 47uF/10V 1 D	ECS-10R05-470M
C027	Polyestor 0.01uF/50V 1 D	PFC-50P3-103K
C028	Polyestor 0.001uF/50V 1 D	PFC-50P3-102K
C029	Cer. SL 270PF 1 D	CDC-50SL-271J
#C030	Cer. Chip Cap. 0805 X7R 0.0047uF 1 S	CC0805-5X-472K
C032	Electrolytic 47uF/10V 1 D	ECS-10R05-470M
C033	Polyestor 0.047uF/50V 1 D	PFC-50P5-473K
#C034	Cer. Chip Cap. 0805 CH 27pF 1 S	CC0805-5C-270J
C035	Electrolytic 47uF/10V 1 D	ECS-10R05-470M
C036	Polyestor 0.001uF/50V 1 D	PFC-50P3-102K
C037	Electrolytic 47uF/10V 1 D	ECS-10R05-470M
C038	Polyestor 0.022uF/50V 1 D	PFC-50P3-223K
C039	Polyestor 0.1uF/50V 1 D	PFC-50P5-104K
C040	Electrolytic 22uF/25V 1 D	ECS-25R05-220M
C041	Polyester 0.0056uF/50V 1 D	PFC-50P3-562K
C042	Cer. YF 0.0047uF 1 D	CDC-50YF-472Z
#C043	Mono Cer. Chip Cap 0805 50V CH 24pF. 1 S	CC0805-5C-240J
C044	Electrolytic 10uF/25V 1 D	ECS-25R05-100M
C045	Cer. YF 0.0047uF 1 D	CDC-50YF-472Z
#C046	Cer. Chip Cap. 0805 X7R 0.0047uF 1 S	CC0805-5X-472K
#C047	Cer. Chip Cap. 0805 X7R 0.001uF 1 S	CC0805-5X-102K
#C048	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
#C049	Cer. Chip Cap. 0805 50V CH 10pF. 1 S	CC0805-5C-100D
#C050	Cer. Chip Cap. 0805 X7R 0.001uF 1 S	CC0805-5X-102K
#C051	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K

Magnum S3 Parts List
PARTS ON MAIN PCB

REF #	Description	Part #
#C052	Cer. Chip Cap. 0805 CH 8pF 1 S	CC0805-5C-080D
C053	Cer. YF 0.01uF 1 D	CDC-50YF-103Z
C055	Cer. YR 0.001uF 1 D	CDC-25YR-102K
C056	Cer. YF 0.01uF 1 D	CDC-50YF-103Z
#C058	Cer. Chip Cap. 0805 CH 5pF 1 S	CC0805-5C-050C
C059	Cer. CH 5PF 1 D	CDC-50CH-050C
#C061	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
#C062	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
#C066	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
C070	Cer. SL 220PF 1 D	CDC-50SL-221J
C071	Electrolytic 1uF/50V 1 D	ECS-50R05-1U0M
#C075	Cer. Chip Cap. 0805 CH 68pF 1 S	CC0805-5C-680J
#C076	Cer. Chip Cap. 0805 CH 39pF 1 S	CC0805-5C-390J
C077	Cer. SL 10PF 1 D	CDC-50SL-100D
C078	Cer. SL 15PF 1 D	CDC-50SL-150J
#C079	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
C080	Cer. Disc Cap. UJ 18pF 1 D	CDC-50UJ-180J
#C081	Cer. Chip Cap. 0805 CH 68pF 1 S	CC0805-5C-680J
C082	Cer. UJ 270PF 1 D	CDC-50UJ-271J
C083	Cer. CH 30PF 1 D	CDC-50CH-300J
#C084	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
C085	Cer. UJ 390PF 1 D	CDC-50UJ-391J
#C086	Cer. Chip Cap. 0805 CH 100pF 1 S	CC0805-5C-101J
C087	Polyestor 0.0022uF/50V 1 D	PFC-50P3-222K
#C088	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
C089	Cer. CH 15PF 1 D	CDC-50CH-150J
C090	Electrolytic 100uF/16V 1 D	ECS-16R06-101M
C091	Ceramic Disc Cap.50V UJ 150pF 1 D	CDC-50UJ-151J
C092	Cer. SL 27PF 1 D	CDC-50SL-270J
C093	Cer. SL 560PF 1 D	CDC-50SL-561J
C094	Cer. SL 270PF 1 D	CDC-50SL-271J
C095	Electrolytic 220uF/10V 1 D	ECS-10R06-221M
#C096	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
#C097	Cer. Chip Cap. 0805 CH 10pF 1 S	CC0805-5C-100D
C098	Cer. SL 10PF 1 D	CDC-50SL-100D
#C099	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
C100	Polyestor 0.001uF/50V 1 D	PFC-50P3-102K
C101	Tantalum 2.2uF/25V 1 D	ELC-TCP25V-R05
C102	Tantalum 0.47uF/35V 1 D	ELC-TCP35V-R05
#C103	Cer. Chip Cap. 0805 CH 5pF 1 S	CC0805-5C-050C
C104	Cer. YF 0.047uF 1 D	CDC-25YF-473Z
C105	Cer. YR 0.001uF 1 D	CDC-25YR-102K
#C106	Cer. Chip Cap. 0805 CH 39pF 1 S	CC0805-5C-390J
#C107	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
C108	Electrolytic 100uF/16V 1 D	ECS-16R06-101M
C109	Ceramic Disc Cap.50V SL 120pF +-5% 1 D	CDC-50SL-121J
C110	Polyestor 0.01uF/50V 1 D	PFC-50P3-103K
#C111	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
C112	Cer. YF 0.047uF 1 D	CDC-25YF-473Z
C113	Cer. Disc Cap. YF 0.01uF (Y5V) 50V Semi. 1 D	CDC-50YF-103Z
#C114	Cer. Chip Cap. 0805 CG 150pF 1 S	CC0805-5C-151J
C115	Cer. SL 270PF 1 D	CDC-50SL-271J
#C116	Cer. Chip Cap. 0805 50V CH 39pF. 1 S	CC0805-5C-390J
C119	Jumper Wire4mm 1 D	JWRA06TP004X
#C120	Cer. Chip Cap. 0805 CG 120pF 1 S	CC0805-5C-121J
C123	Cer. Disc Cap.50V YB 0.001uF 1 D	CDC-50YB-102K

Magnum S3 Parts List
PARTS ON MAIN PCB

REF #	Description	Part #
C126	Electrolytic 2.2uF/50V 1 D	ECS-50R05-2U2M
#C127	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
C128	Electrolytic 1uF/50V 1 D	ECS-50R05-1U0M
C129	Tantalum 0.22uF/35V 1 D	ELC-TCP35V-R03
#C130	Cer. Chip Cap. 0805 X7R 0.001uF 1 S	CC0805-5X-102K
C133	Electrolytic 10uF/25V 1 D	ECS-25R05-100M
C135	Cer. YF 0.047uF 1 D	CDC-25YF-473Z
C143	Electrolytic 1uF/50V 1 D	ECS-50R05-1U0M
C144	Ceramic YR 0.001uF 1 D	CDC-25YR-102K
C145	Electrolytic 470uF/16V 1 D	ECS-16R08-471M
C146	Electrolytic 47uF/10V 1 D	ECS-10R05-470M
C147	Electrolytic 0.47uF/50V 1 D	ECS-50R05-U47M
C148	Cer. Disc Cap. 50V CH 100pF 1 D	CDC-50CH-101J
C149	Polyester 0.1uF/50V 1 D	PFC-50P5-104K
C150	Electrolytic 22uF/25V 1 D	ECS-25R05-220M
C151	Electrolytic 33uF/16V 1 D	ECS-16R05-330M
C152	Polyester 0.0022uF/50V 1 D	PFC-50P3-222K
C154	Polyester 0.047uF/50V 1 D	PFC-50P5-473K
C155	Polyester 0.1uF/50V 1 D	PFC-50P5-104K
C156	Electrolytic 47uF/10V 1 D	ECS-10R05-470M
C157	Electrolytic 1uF/50V 1 D	ECS-50R05-1U0M
C158	Cer. Disc Cap. 50V CH 100pF 1 D	CDC-50CH-101J
C159	Cer. YF 0.01uF 1 D	CDC-50YF-103Z
#C160	Mono Cer. Chip 1206 300V CG 150pF +-5% 1 S	CC1206-3C-151J
#C161	Cer. Chip Cap. 0805 CK 0.5pF 1 S	CC0805-5C-0R5C
C164	Electrolytic 1uF/50V 1 D	ECS-50R05-1U0M
#C165	Mono Cer. Chip 1206 100V CG 220pF 1 S	CC1206-1C-221J
C165a	Mono Cer. Chip 1206 100V CG 100pF 1 S	CC1206-1C-101J
C166	Cer. Disc Cap. YF 0.01uF (Y5V) 50V 1 D	CDC-50YF-103Z
#C167	Cer. Chip 1206 100V CG 180pF 1 S	CC1206-1C-181J
C167a	Cer. Chip 1206 100V CG 180pF (S.S) 1 S	CC1206-1C-181J
C168	Polyester Film Cap 50V 0.01uF 1 D	PFC-50P3-103K
C169	Cer. YF 0.1uF 1 D	CDC-25YF-104Z
C171	Cer. Disc Cap. 50V UJ 470pF 1 D	CDC-50UJ-471J
C172	Polyester 0.1uF/50V 1 D	PFC-50P5-104K
#C173	Cer. Chip Cap. 0805 25V Y5V 0.1uF. 1 S	CC0805-2Y-104Z
C174	Electrolytic 2.2uF/50V 1 D	ECS-50R05-2U2M
C175	Cer. Disc Cap. 50V UJ 390pF 1 D	CDC-50UJ-391J
C175a	Cer. Chip Cap. 0805 CH 220pF(ON C175a) 1 D	CC0805-5C-221J
C176	Cer. YF 0.01uF 1 D	CDC-50YF-103Z
#C177	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
#C178	Cer. Chip Cap. 0805 CG 470pF 1 S	CC0805-5C-471J
#C179	Cer. Chip Cap. 0805 X7R 0.0047uF 1 S	CC0805-5X-472K
#C180	Cer. Chip Cap. 0805 CG 180pF 1 S	CC0805-5C-181J
#C182	Cer. Chip Cap. 0805 50V CH 5pF. 1 S	CC0805-5C-050C
#C183	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
#C184	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
C185	Jumper Wire 4.5mm 1 D	JWRA06TP4R5X
C187	Polyester 0.047uF/50V 1 D	PFC-50P5-473K
C188	Cer. YF 0.047uF 1 D	CDC-25YF-473Z
#C189	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
C190	Electrolytic 100uF/16V 1 D	ECS-16R06-101M
C191	Polyester 0.047uF/50V 1 D	PFC-50P5-473K
C192	Polyester 0.001uF/50V 1 D	PFC-50P3-102K

Magnum S3 Parts List
PARTS ON MAIN PCB

REF #	Description	Part #
C193	ECAP 2.2uF 50V 1 D	ECS-50R05-2U2M
C194	Electrolytic 1000uF/25V (10x20mm) 1 D	ECN-25R10-102M
C195	ECAP 4700uF/16V 1 D	ECS-16R16-472M
#C196	Cer. Chip Cap. 0805 X7R 0.001uF 1 S	CC0805-5X-102K
C197	Cer. Disc Cap.25V YR 0.001uF +-10% Semi. 1 D	CDC-25YR-102K
C199	Electrolytic 330uF/16V 1 D	ECS-16R08-331M
#C200	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
C201	Cer. Disc Cap. YF 0.01uF (Y5V) 50V Semi. 1 D	CDC-50YF-103Z
C202	Cer. Disc Cap.25V YF 0.047uF +80-20% 1 D	CDC-25YF-473Z
C203	Cer. YF 0.047uF 1 D	CDC-25YF-473Z
#C204	Cer. Chip Cap. 0805 Y5V 0.047uF 1 S	CC0805-2Y-473Z
C209	Ceramic Disc Cap.50V UJ 390pF 1 D	CDC-50UJ-391J
#C210	Cer. Chip Cap. 0805 25V Y5V 0.1uF. 1 S	CC0805-2Y-104Z
#C211	Mono Cer. Chip 1206 100V CG 220pF 1 S	CC1206-1C-221J
C212	Polyester 0.1uF/50V 1 D	PFC-50P5-104K
#C213	Cer. Chip Cap. 0805 X7R 0.001uF 1 S	CC0805-5X-102K
C216	Cer. YF 0.047uF 1 D	CDC-25YF-473Z
C217	Cer. YR 0.001uF 1 D	CDC-25YR-102K
C218	Cer. YF 0.047uF 1 D	CDC-25YF-473Z
C219	Electrolytic 22uF/25V 1 D	ECS-25R05-220M
C220	Electrolytic 4.7uF/50V 1 D	ECS-50R05-4U7M
#C224	Cer. Chip Cap. 0805 CH 5pF 1 S	CC0805-5C-050C
#C225	Cer. Chip Cap. 0805 CH 10pF 1 S	CC0805-5C-100D
#C226	Cer. Chip Cap. 0805 CH 100pF 1 S	CC0805-5C-101J
C228	Jumper Wire 4.5mm 1 D	JWRA06TP4R5X
#C230	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
C231	Jumper Wire 3mm 1 D	JWRA06TP003X
C277	Cer. YF 0.01uF 1 D	CDC-50YF-103Z
C332	Ceramic Disc Cap.50V YF 0.0047uF +80-20% 1 D	CDC-50YF-472Z
C333	Electrolytic 10uF/25V 1 D	ECS-25R05-100M
C335	Ceramic Disc Cap.50V YF 0.0047uF +80-20% 1 D	CDC-50YF-472Z
#C361	Cer. Chip Cap. 0805 50V X7R 0.01uF. 1 S	CC0805-5X-103K
#C400	Cer. Chip Cap. 0805 50V CH 220pF. 1 S	CC0805-5C-221J
C401	ECAP 4.7uF 50V 1 D	ECM-50R04-4U7M
C402	Ceramic Disc Cap.50V CH 100pF +-5% 1 S	CDC-50CH-101J
#C403	Mono Cer. Chip 1206 100V CG 100pF +-5% 1 S	CC1206-1C-101J
#C404	Cer. Chip 1206 100V CG 560pF 1 S	CC1206-1C-561J
#C406	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
C407	Cer. YF 0.047uF 1 D	CDC-25YF-473Z
#C409	Metal Film Chip Res 0805 3.3K . 1 S	CFR-0805-3K30J
#C411	Cer. Chip Cap. 0805 50V CH 5pF. 1 S	CC0805-5C-050C
C412	Cer. Disc Cap. YF 0.01uF. 1 D	CDC-50YF-103Z
C413	ECAP 47uF 10V 1 D	ECS-10R05-470M
C415	Cer. Disc Cap. YF 0.01uF (Y5V) 50V . 1 D	CDC-50YF-103Z
C416	ECAP 10uF 16V 1 D	ECM-16R04-100M
#C912	Cer. Chip Cap. 0805 X7R 0.01uF 1 S	CC0805-5X-103K
C914	Polyester Film Cap 50V 0.068uF 1 S	PFC-50P5-683K
C915	Cer. Disc Cap.50V CH 220pF 1 S	CDC-50CH-221J
C916	0.001uF +-10% ON IC5 16 to 1 D	CDC-25YR-102K

Magnum S3 Parts List

PARTS ON MAIN PCB

Diode

REF #	Description	Part #
D001	1N60P 1 D	DDET-AX-1N60P
D002	1N60P 1 D	DDET-AX-1N60P
D003	Switch Diode 1 D	DDE1N4148
D006	Switch Diode 1 D	DDE1N4148
D007	Switch Diode 1 D	DDE1N4148
D008	Switch Diode 1 D	DDE1N4148
D009	Switch Diode 1 D	DDE1N4148
D010	1N60P 1 D	DDET-AX-1N60P
D011	1N60P 1 D	DDET-AX-1N60P
D012	Switch Diode 1 D	DDE1N4148
D014	Switch Diode 1 D	DDE1N4148
D015	PIN Diode 1 D	DDEMI301
D016	PIN Diode 1 D	DDEMI301
D018	Jumper Wire 15.5mm 1 D	JWRA06TP15R5X
D019	Jumper Wire 15.5mm 1 D	JWRA06TP15R5X
D020	Switch Diode 1 D	DDE1N4148
D023	1N60P 1 D	DDET-AX-1N60P
D024	1N60P 1 D	DDET-AX-1N60P
D026	Switch Diode 1 D	DDE1N4148
D028	Switch Diode 1 D	DDE1N4148
D029	Diode 1 D	DDE1N4007
D030	VC Diode 1 D	DDESVC251
D031	Switch Diode 1 D	DDE1N4148
D032	Switch Diode 1 D	DDE1N4148
D033	Transistor NPN TO92N KTC3195-Y 1 D	TR-TO92-C3195Y
D035	Jumper Wire 2.5mm 2 D	JWRA06TP2R5X
D057	Jumper Wire 3mm 1 D	JWRA06TP003X
D061	Switch Diode 1 D	DDE1N4148
D065	Swithing Diode 1SS133 2 D	DDE1SS133
D066	Switch Diode 1 D	DDE1N4148
D070	Switch Diode 1 D	DDE1N4148
D071	Switch Diode 1 D	DDE1N4148
D076	Zener 5.1V +-2% 1 D	DDE-C5V1G
D077	Res. 1/4W TJ 680 Ohms 1 D	CFR1/4-TJ-680R
D078	Zener 7.5V +-2% 1 D	DDE-C7V5G
D079	Swithing Diode (Replace DDEMA29WA) 2 D	DDE1SS133
D081	Switch Diode 1 D	DDE1N4148
D083	1N60P 1 D	DDET-AX-1N60P
D086	Switch Diode 1 D	DDE1N4148
D087	Switch Diode 1 D	DDE1N4148
D088	Rectifier Diode 1A/50V ON TR44 'B'&'E' 1 D	DDE1N4001
D089	Rectifier Diode 1A/50V ON TR43 'B'&'E' 1 D	DDE1N4001
D090	Switch Diode 1 D	DDE1N4148
D091	Switch Diode 1 D	DDE1N4148
D092	Switch Diode 1 D	DDE1N4148
D093	Rectifier Diode 3 Amp 50V 1 D	DDE1N5400
D094	Switch Diode 1 D	DDE1N4148
D095	VC Diode 1 D	DDESVC251
D113	Switch Diode 1 D	DDE1N4148
D114	Switch Diode 1 D	DDE1N4148
D116	Zener Diode 7.5V 1 D	DDE-C7V5G
D123	Switch Diode 1 D	DDE1N4148

Magnum S3 Parts List

PARTS ON MAIN PCB

REF #	Description	Part #
D124	Jumper Wire 3mm 1 D	JWRA06TP003X
D125	Switch Diode 1 D	DDE1N4148
D141	Rectifier Diode 1A/50V ONTR56 'B'&'E' 1 D	DDE1N4001
D403	Zener 5.6V 1 D	DDE-C5V6G
D501	Switching Diode SMT MINI-MELF MM4148 1 S	DSG-MEL-MM4148
D502	Switching Diode SMT MINI-MELF MM4148 1 S	DSG-MEL-MM4148
D503	Switching Diode SMT MINI-MELF MM4148 1 S	DSG-MEL-MM4148
D504	Switching Diode SMT MINI-MELF MM4148 1 S	DSG-MEL-MM4148
D506	Switch Diode 1 D	DDE1N4148
D509	Switch Diode 1 D	DDE1N4148
D510	Switch Diode 1 D	DDE1N4148
DA	Zener Diode 6.2V ON C412 S.S 1 D	DDE-C6V2G

Filter

REF #	Description	Part #
FL001	Cer. Filter 455KHz 1 D	FLRB00M455A5A
FL002	Cer. Filter 10.7MHz 1 D	FLRB10M700A1A
FL003	Jumper Wire 13.5mm ON In-Out Pin 1 D	JWRA06TP13R5X

I.C.

REF #	Description	Part #
IC001	LM324N 1 D	ICT324N
IC002	IC 7 Pins SIP Package BA403 1 D	IC-SIP-BA403
IC003	Jumper Wire 10mm ON 3-7Pin 1 D	JWRA06TP010X
IC004	NJM4558D 1 D	ICT4558D
IC005	KS8805BD 1 S	IC-SOP-8805BD
IC008	KIA7217AP 1 D	ICT7217AP
IC010	TA7310P 1 D	ICT7310P
IC011	LMV358M N.S. 1 S	IC-SOT-V358M

COIL

REF #	Description	Part #
L001	IFT 10.7 MHz 10mm 12000 1 D	ELC-IFT-003
L002	RFT 12 MHz 10mm 12001 1 D	ELC-RFT-006
L003	IFT 455 KHz 7mm 12002 1 D	ELC-IFT-001
L004	IFT 455 KHz 7mm 12002 1 D	ELC-IFT-001
L005	IFT 455 KHz 7mm 12003 1 D	ELC-IFT-002
L006	RFT 7.96 MHz 10mm 12004 1 D	ELC-RFT-005
L007	RFT 24 MHz 10mm 12005 1 D	ELC-RFT-012
L008	RFT 30 MHz 10mm 12022 1 D	ELC-RFT-014
L010	RFT 12.2 MHz 10mm 12007 1 D	ELC-RFT-008
L011	RFT 12.2 MHz 10mm 12007 1 D	ELC-RFT-008
L012	RFT 12.5 MHz 10mm 12008 1 D	ELC-RFT-009
L015	Ferrite (ON R122) 1 D	FER-RH3M5X6X1
L017	RFT 7.96 MHz 10mm 12017 1 D	ELC-RFT-004
L018	RFT 16 MHz 10mm 12010 1 D	ELC-RFT-011
L020	RFT 7.96 MHz 7mm 12012 1 D	ELC-RFT-001
L022	RFT 15.5 MHz 10mm 12258 1 D	ELC-RFT-010
L024	Ferrite (ON R124) 1 D	FER-RH3M5X6X1

Magnum S3 Parts List
PARTS ON MAIN PCB

REF #	Description	Part #
L025	Solid Res.1/8W EJ 3.9K 1 D	CFR1/8-EJ-3K90
L026	RFT 7.96 MHz 7mm 12016 1 D	ELC-RFT-003
L031	Spring Coil 8T5 ID=6.0mm 1 D	SCL128T56M0R
L033	Air Spring Coil 3T5 ID=6mm 1 D	SCL123T56M0TL
L034	Jumper Wire Enamelled Copper D1.0xL7.5mm 1 D	JWRA10EC7R5X
L035	Res 0805 100R (ON R216 S.S) 1 D	CFR-0805-100R
L036	Ferrite 1 D	MLS-C-0045
L037	Spring Coil 3 X 4 Turns 1 D	CILB03X04TS01
L038	Ferrite 1 D	MLS-C-0045
L039	Spring Coil 4.25 X 6.5 Turns 1 D	CILB4X256T5R1
L040	RFT 25.2 MHz 10mm 12014 1 D	ELC-RFT-013
L041	Ferrite(With Wire TJ Type) 1 D	MLS-C-0045
L042	RFT 47 MHz 10mm 12015 1 D	ELC-RFT-015
L043	RFT 16 MHz 10mm 12010 1 D	ELC-RFT-011
L044	RFT 12.2 MHz 10mm 0063 1 D	ELC-RFT-007
L047	Ferrite Core RH 3.5x6x1.3mm ON R218 1 D	FER-RH3M5X6X1
L050	Inductor22uH 1 D	CILCEC36220K
L051	Air Spring Coil 3T5 ID=6mm 1 D	SCL123T56M0R
L052	Air Spring Coil 3T5 ID=6mm 1 D	SCL123T56M0R
L054	Res 0805 100R (ON R271 S.S) 1 D	CFR-0805-100R
L060	Spring Coil 4.25 X 5.5 . 1 D	CILB4X255T5R
LT01	Choke Coil 900uH +-15% EI19 1 D	CHOK-EI19-901L
LT02	Toroid 5.5T ID=15 OD=25 (ON DC Socket) 1 D	IND-TOR25X1501

TRANSISTOR

REF #	Description	Part #
TR001	2SC1675K 1 D	TTR2SC1675K
TR003	2SC945P 1 D	TTR2SC945P
TR004	2SC945P 1 D	TTR2SC945P
TR005	2SC945P 1 D	TTR2SC945P
TR006	2SA733P 1 D	TTR2SA733P
TR007	2SC945P 1 D	TTR2SC945P
TR008	2SC1674L 1 D	TTR2SC1674L
TR009	2SC1675K 1 D	TTR2SC1675K
TR010	2SC1675K 1 D	TTR2SC1675K
TR011	2SC1675K 1 D	TTR2SC1675K
TR013	2SC945P 1 D	TTR2SC945P
TR014	2SC945P 1 D	TTR2SC945P
TR015	2SC945P 1 D	TTR2SC945P
TR016	2SC945P 1 D	TTR2SC945P
TR017	2SC1674L 1 D	TTR2SC1674L
TR018	FET 1 D	FETJ310 J310
TR021	Anode ON 'B'/Cathode ON 'E' 1 D	DDE1N4148
TR023	2SC945P 1 D	TTR2SC945P
TR024	2SC1675K 1 D	TTR2SC1675K
TR025	2SC1675K 1 D	TTR2SC1675K
TR026	2SC1675K 1 D	TTR2SC1675K
TR030	2SC1675K 1 D	TTR2SC1675K
TR032	2SC945P 1 D	TTR2SC945P
TR034	2SA733P 1 D	TTR2SA733P
TR036	KTA1271 1 D	TR-TO92-KA1271

Magnum S3 Parts List
PARTS ON MAIN PCB

REF #	Description	Part #
TR037	2SC945P 1 D	TTR2SC945P
TR038	KTA1271 1 D	TR-TO92-KA1271
TR040	2SC945P 1 D	TTR2SC945P
TR041	2SB1566E 1 D	TTR2SB1566E
TR042	2SC945P 1 D	TTR2SC945P
TR043	2SC1969 1 D	TTR2SC1969
TR044	2SC2166C 1 D	TTR2SC2166C
TR045	2sc2314F 1 D	TTR2SC2314F
TR046	2SC1906 1 D	TTR2SC1906
TR049	2SC945P 1 D	TTR2SC945P
TR050	Epitaxial Planer PNP [TR-TO22-B1185E] 1 D	TTR2SB1566E
TR051	Power Amp. PNP Transistor KTB688-O 1 D	TR-TO3-B688-O
TR052	2SC945P 1 D	TTR2SC945P
TR053	2SC945P 1 D	TTR2SC945P
TR054	2SC945P 1 D	TTR2SC945P
TR056	2SC1969 1 D	TTR2SC1969
TR401	2SC945P 1 D	TTR2SC945P
#TR402	2SC3356-L NEC Transistor 1 S	TTR2SC3356L
#TR403	2SC3356-L NEC Transistor 1 S	TTR2SC3356L
#TR404	2SC3356-L NEC Transistor 1 S	TTR2SC3356L
#TR405	2SC3356-L NEC Transistor 1 S	TTR2SC3356L
#TR406	2SC3356-L NEC Transistor 1 S	TTR2SC3356L
#TR407	2SC3356-L NEC Transistor 1 S	TTR2SC3356L
TR911	Anode ON 'C'/Cathode ON 'E' 1 D	DDE1N4148
TR912	2SC1675K 1 D	TTR2SC1675K
TR913	Transistor 2SC945P 1 D	TTR2SC945P

RESISTOR

REF #	Description	Part #
#R001	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
R002	Solid Res. UJ 33K OHMS 1 D	CFR1/8-U8-33K0
#R003	Metal Film Chip Res. 0805 680 1 S	CFR-0805-680RJ
R004	Solid Res. UJ 220 OHMS. 1 D	CFR1/8-U8-220R
R005	Solid Res. UJ 330 OHMS. 1 D	CFR1/8-U8-330R
R006	Solid Res. UJ 47K OHMS 1 D	CFR1/8-U8-47K0
R007	Solid Res. UJ 2.7K OHMS 1 D	CFR1/8-U8-2K70
#R008	Metal Film Chip Res. 0805 330 1 S	CFR-0805-330RJ
R009	Solid Res. TJ 68 OHMS 1 D	CFR1/4-TJ-68R0
R010	Solid Res. UJ 100K OHMS 1 D	CFR1/8-U8-100K
#R011	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
R012	Solid Res. UJ 6.8K OHMS 1 D	CFR1/8-U8-6K80
#R013	Metal Film Chip Res. 0805 470K 1 S	CFR-0805-470KJ
#R014	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
R015	Solid Res. EJ 330 OHMS 1 D	CFR1/4-EJ-330R
R016	Solid Res. EJ 3.3K OHMS 1 D	CFR1/8-EJ-3K30
R017	Solid Res. EJ 2.2K OHMS 1 D	CFR1/8-EJ-2K20
R018	Solid Res. EJ 1K OHMS 1 D	CFR1/8-EJ-1K00
R019	Solid Res. UJ 68K OHMS 1 D	CFR1/8-U8-68K0
#R020	Metal Film Chip Res. 0805 330 1 S	CFR-0805-330RJ
#R021	Metal Film Chip Res. 0805 180 1 S	CFR-0805-180RJ
R022	Solid Res. UJ 3.3K OHMS 1 D	CFR1/8-U8-3K30
R023	Solid Res. TJ 2.7K OHMS 1 D	CFR1/4-TJ-2K70
#R024	Metal Film Chip Res. 0805 2.2K 1 S	CFR-0805-2K20J
R025	Solid Res. EJ 2.7K OHMS 1 D	CFR1/4-EJ-2K70

Magnum S3 Parts List
PARTS ON MAIN PCB

REF #	Description	Part #
R026	Solid Res. UJ 100 OHMS 1 D	CFR1/8-U8-100R
R027	Solid Res. TJ 100K OHMS 1 D	CFR1/4-TJ-100K
#R028	Metal Film Chip Res. 0805 150 1 S	CFR-0805-150RJ
#R029	Metal Film Chip Res. 0805 270 1 S	CFR-0805-270RJ
R030	Solid Res. TJ 100 OHMS 1 D	CFR1/4-TJ-100R
#R031	Metal Film Chip Res. 0805 6.8K 1 S	CFR-0805-6K80J
R032	Solid Res. EJ 100 OHMS 1 D	CFR1/4-EJ-100R
#R033	Metal Film Chip Res. 0805 1K 1 S	CFR-0805-1K00J
#R034	Metal Film Chip Res. 0805 1.5M 1 S	CFR-0805-1M50J
#R035	Metal Film Chip Res. 0805 Jumper 1 S	CFR-0805-0R00O
#R036	Metal Film Chip Res. 0805 100K 1 S	CFR-0805-100KJ
#R037	Metal Film Chip Res. 0805 82K 1 S	CFR-0805-82K0J
#R038	Metal Film Chip Res. 0805 39K 1 S	CFR-0805-39K0J
R039	Solid Res. TJ 220K OHMS 1 D	CFR1/4-TJ-220K
R040	Carbon Film Res.1/8W 820K +-5% UJ Pi=8mm 1 D	CFR1/8-U8-820K
R041	Solid Res.UJ 100K OHMS 1 D	CFR1/8-U8-100K
#R042	Metal Film Chip Res. 0805 100K 1 S	CFR-0805-100KJ
R043	Solid Res. UJ 270K OHMS 1 D	CFR1/8-U8-270K
#R044	Metal Film Chip Res. 0805 680 1 S	CFR-0805-680RJ
R045	Solid Res.UJ 100K OHMS 1 D	CFR1/8-U8-100K
R046	Solid Res.UJ 100K OHMS 1 D	CFR1/8-U8-100K
R047	Solid Res. TJ 3.9K OHMS 1 D	CFR1/4-TJ-3K90
#R050	Metal Film Chip Res. 0805 3.9K 1 S	CFR-0805-3K90J
R051	Solid Res.UJ 1K 1 D	CFR1/8-U8-1K00
R052	Solid Res. UJ 10K OHMS 1 D	CFR1/8-U8-10K0
R053	Solid Res. UJ 1K OHMS 1 D	CFR1/8-U8-1K00
R054	Solid Res. UJ 47K OHMS 1 D	CFR1/8-U8-47K0
R055	Solid Res. EJ 47K OHMS 1 D	CFR1/4-EJ-47K0
R056	Solid Res. TJ 1K OHMS 1 D	CFR1/4-TJ-1K00
#R057	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
R058	Solid Res. EJ 3.3K OHMS 1 D	CFR1/4-EJ-3K30
#R059	Metal Film Chip Res. 0805 1K 1 S	CFR-0805-1K00J
R060	Solid Res. EJ 270 OHMS 1 D	CFR1/4-EJ-270R
#R061	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
#R062	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
R063	Solid Res. UJ 6.8K OHMS 1 D	CFR1/8-U8-6K80
#R064	Metal Film Chip Res. 0805 2.2K 1 S	CFR-0805-2K20J
R066	Solid Res. TJ 1K OHMS 1 D	CFR1/4-TJ-1K00
#R067	Metal Film Chip Res 0805 3.3K 5% 1/10W. 1 S	CFR-0805-3K30J
R068	Carbon Film Res.1/8W UJ 820 +-5% Pi=8mm. 1 D	CFR1/8-U8-820R
R069	Solid Res. UJ 100 1 D	CFR1/8-U8-100R
R073	Solid Res. UJ 100 1 D	CFR1/8-U8-100R
R074	Solid Res. TJ 1.5K OHMS (TP) 1 D	CFR1/4-TJ-1K50
#R075	Metal Film Chip Res. 0805 68K 1 S	CFR-0805-68K0J
#R076	Metal Film Chip Res. 0805 6.8K 1 S	CFR-0805-6K80J
R080	Jumper Wire 12.5mm 1 D	JWRA06TP12R5X
R086	Metal Chip Res. 680 +-5% 0805 1 S	CFR-0805-680RJ
#R087	Metal Film Chip Res. 0805 2.2K 1 S	CFR-0805-2K20J
R090	Solid Res.1/8W UJ 1K 1 D	CFR1/8-U8-1K00
R095	Solid Res.1/8W UJ 3.3K 1 D	CFR1/8-U8-3K30
#R097	Metal Film Chip Res. 0805 100K 1 S	CFR-0805-100KJ
R098	Solid Res. EJ 100K OHMS 1 D	CFR1/4-EJ-100K

Magnum S3 Parts List
PARTS ON MAIN PCB

REF #	Description	Part #
#R099	Metal Film Chip Res. 0805 68K 1 S	CFR-0805-68K0J
R100	Solid Res. UJ 1M OHMS 1 D	CFR1/8-U8-1M00
R101	Solid Res. EJ 68K OHMS 1 D	CFR1/4-EJ-68K0
R103	Solid Res. UJ 270K OHMS 1 D	CFR1/8-U8-270K
R104	Solid Res. EJ 1.5K OHMS 1 D	CFR1/8-EJ-1K50
R105	Solid Res. EJ 56 OHMS 1 D	CFR1/4-EJ-56R0
#R106	Metal Film Chip Res. 0805 180 1 S	CFR-0805-180RJ
#R107	Metal Film Chip Res. 0805 4.7K 1 S	CFR-0805-4K70J
R108	Solid Res. UJ 1K OHMS 1 D	CFR1/8-U8-1K00
#R109	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
#R110	Metal Film Chip Res. 0805 1K 1 S	CFR-0805-1K00J
#R111	Metal Film Chip Res. 0805 220K 1 S	CFR-0805-220KJ
R112	Solid Res. UJ 56 OHMS 1 D	CFR1/8-U8-56R0
R113	Solid Res. UJ 10K OHMS 1 D	CFR1/8-U8-10K0
R114	Solid Res. UJ 6.8K OHMS 1 D	CFR1/8-U8-6K80
#R115	Metal Film Chip Res. 0805 680 1 S	CFR-0805-680RJ
R116	Solid Res. EJ 27K OHMS (TP) 1 D	CFR1/8-EJ-27K0
R118	Solid Res. EJ 10K OHMS 1 D	CFR1/4-EJ-10K0
R119	Solid Res. TJ 220K OHMS 1 D	CFR1/4-TJ-220K
R120	Solid Res. UJ 1K OHMS 1 D	CFR1/8-U8-1K00
R121	Solid Res. UJ 2.2K OHMS 1 D	CFR1/8-U8-2K20
R122	Solid Res. TJ 33 Ohms (W/F) 1 D	CFR1/4-TJ-33R0
R123	Solid Res. UJ 6.8K OHMS 1 D	CFR1/8-U8-6K80
R124	Solid Res. TJ 47 OHMS (W/F.) 1 D	CFR1/4-TJ-47R0
R125	Solid Res. EJ 100 OHMS 1 D	CFR1/4-EJ-100R
R126	Solid Res. EJ 560 OHMS 1 D	CFR1/4-EJ-560R
R127	Solid Res. EJ 1K OHMS 1 D	CFR1/8-EJ-1K00
R128	Solid Res. EJ 3.3K OHMS 1 D	CFR1/8-EJ-3K30
R129	Solid Res. UJ 220K OHMS 1 D	CFR1/8-U8-220K
R139	Solid Res. EJ 820 OHMS 1 D	CFR1/4-EJ-820R
R140	Solid Res. EJ 820 OHMS 1 D	CFR1/4-EJ-820R
#R142	Metal Film Chip Res. 0805 4.7K 1 S	CFR-0805-4K70J
R143	Solid Res. 1/8W UJ 1K 1 D	CFR1/8-U8-1K00
#R151	Metal Film Chip Res 0805 1K . 1 S	CFR-0805-1K00J
#R152	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
#R153	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
R154	Solid Res. EJ 220 OHMS 1 D	CFR1/4-EJ-220R
R160	Solid Res. UJ 15K OHMS 1 D	CFR1/8-U8-15K0
#R162	Metal Film Chip Res. 0805 100 1 S	CFR-0805-100RJ
R164	Solid Res. TJ 10K OHMS 1 D	CFR1/4-TJ-10K0
R166	Solid Res. UJ 15K OHMS 1 D	CFR1/8-U8-15K0
R167	Solid Res. EJ 100K OHMS 1 D	CFR1/8-EJ-100K
#R168	Metal Film Chip Res. 0805 470K 1 S	CFR-0805-470KJ
#R169	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
#R170	Metal Film Chip Res. 0805 100K 1 S	CFR-0805-100KJ
R171	Solid Res. EJ 47K OHMS 1 D	CFR1/8-EJ-47K0
#R173	Metal Film Chip Res. 0805 12K 1 S	CFR-0805-12K0J
# R174	Metal Film Chip Res. 0805 1K 1 S	CFR-0805-1K00J
#R175	Metal Film Chip Res. 0805 470 1 S	CFR-0805-470RJ
R176	Solid Res. TJ 3.3K OHMS 1 D	CFR1/4-TJ-3K30
R177	Solid Res. EJ 1.2K OHMS 1 D	CFR1/4-EJ-1K20
R178	Solid Res. UJ 4.7K OHMS 1 D	CFR1/8-U8-4K70
#R187	Metal Film Chip Res. 0805 10K 1 S	CFR-0805-10K0J
R190	Carbon Film Res. 1/8W TJ 470 Ohms +5% 1 D	CFR1/8-TJ-470R

Magnum S3 Parts List
PARTS ON MAIN PCB

REF #	Description	Part #
#R193	Metal Film Chip Res. 0805 1.5K 1 S	CFR-0805-1K50J
R194	Solid Res. EJ 10K OHMS 1 D	CFR1/8-EJ-10K0
R195	Solid Res. TJ 22K OHMS 1 D	CFR1/4-TJ-22K0
R196	Diode Replace DDEMA29TA 3 D	DDE1SS133
R197	Solid Res. TJ 10K OHMS 1 D	CFR1/4-TJ-10K0
R198	Solid Res. UJ 56 OHMS 1 D	CFR1/8-U8-56R0
R199	Solid Res. EJ 47 OHMS 1 D	CFR1/4-EJ-47R0
R200	Solid Res. TJ 1K OHMS 1 D	CFR1/4-TJ-1K00
R201	Solid Res. EJ 47K OHMS 1 D	CFR1/4-EJ-47K0
R202	Solid Res. UJ 100 1 D	CFR1/8-U8-100R
R205	Solid Res. TJ 1K OHMS 1 D	CFR1/4-TJ-1K00
#R207	Metal Film Chip Res. 0805 4.7K 1 S	CFR-0805-4K70J
#R208	Metal Film Chip Res. 0805 470 1 S	CFR-0805-470RJ
#R209	Metal Film Chip Res. 0805 1K 1 S	CFR-0805-1K00J
#R210	Metal Film Chip Res. 0805 680K 1 S	CFR-0805-680KJ
R213	Solid Res.1/2W TJ 10K 1 D	CFR1/2-TJ-10K0
R215	Solid Res.1/4W EJ 47 Ohms 1 D	CFR1/4-EJ-47R0
R216	Inductor 22uH 1 D	CILCEC36220K
R217	Solid Res. TJ 150 Ohms 1 D	CFR1/2-TJ-150R
R218	Solid Res. TJ 22 Ohms 1 D	CFR1/4-TJ-22R0
R219	Solid Res.1/4W EJ 150 Ohms 1 D	CFR1/4-EJ-150R
#R220	Metal Film Chip Res. 0805 4.7 1 S	CFR-0805-4R70J
R221	Solid Res. TJ 2.2K 1 D	CFR1/4-TJ-2K20
#R222	Metal Film Chip Res. 0805 330 1 S	CFR-0805-330RJ
R223	Solid Res. TJ 150 OHMS 1 D	CFR1/4-TJ-150R
#R224	Metal Film Chip Res. 0805 47 1 S	CFR-0805-47R0J
#R225	Metal Film Chip Res. 0805 330 1 S	CFR-0805-330RJ
R226	Solid Res.1/8W TJ 1.2K 1 D	CFR1/8-TJ-1K20
R230	Solid Res. UJ 100 OHMS 1 D	CFR1/8-U8-100R
R231	Solid Res. UJ 100 OHMS 1 D	CFR1/8-U8-100R
R232	Solid Res.1/8W TJ 3.3K 1 D	CFR1/8-TJ-3K30
R233	Jumper Wire 10mm 1 D	JWRA06TP010X
R235	Solid Res. EJ 15K OHMS 1 D	CFR1/4-EJ-15K0
R237	Solid Res. TJ 100 OHMS 1 D	CFR1/4-TJ-100R
R239	Solid Res. TJ 5.6K OHMS 1 D	CFR1/4-TJ-5K60
R240	Solid Res. EJ 560 OHMS 1 D	CFR1/4-EJ-560R
R241	Solid Res. EJ 10 OHMS 1 D	CFR1/4-EJ-10R0
#R242	Res SMD 0805 10K 1 S	CFR-0805-10K0J
R243	Solid Res. TJ 680 Ohms 1 D	CFR1/8-TJ-680R
R245	Solid Res. UJ 3.3K OHMS 1 D	CFR1/8-U8-3K30
R246	Solid Res. UJ 470 OHMS 1 D	CFR1/8-U8-470R
R247	Solid Res.1/4W EJ 100K 1 D	CFR1/4-EJ-100K
#R248	Metal Film Chip Res 0805 8.2K . 1 S	CFR-0805-8K20J
R249	Solid Res. TJ 47K 1 D	CFR1/4-TJ-47K0
R250	Solid Res. TJ 3.3K 1 D	CFR1/4-TJ-3K30
R251	Solid Res. TJ 4.7K 1 D	CFR1/8-TJ-4K70
R252	Solid Res. EJ 820 OHMS (LAMP) 1 D	CFR1/4-EJ-820R
R254	Solid Res. UJ 6.8K OHMS 1 D	CFR1/8-U8-6K80
#R256	Metal Film Chip Res. 0805 220 1 S	CFR-0805-220RJ
R257	Solid Res. UJ 2.2K OHMS 1 D	CFR1/8-U8-2K20
R259	Solid Res. EJ 3.3K OHMS 1 D	CFR1/8-EJ-3K30
R270	Solid Res.1/4W EJ 47 Ohms 1 D	CFR1/4-EJ-47R0
R271	Inductor 22uH +-10% EC36-220K 1 D	CILCEC36220K
R272	Solid Res.1/2W TJ 150 Ohms 1 D	CFR1/2-TJ-150R
R274	Solid Res. TJ 270K OHMS 1 D	CFR1/4-TJ-270K

Magnum S3 Parts List
PARTS ON MAIN PCB

REF #	Description	Part #
R276	Solid Res. EJ 100 Ohms 1 D	CFR1/4-EJ-100R
R401	Solid Res. TJ 10K 1 D	CFR1/8-TJ-10K0
R402	Solid Res. TJ 10K 1 D	CFR1/8-TJ-10K0
#R405	Metal Film Chip Res. 0805 2.2K 1 S	CFR-0805-2K20J
R406	Solid Res.1/8W TJ 2.2K 1 D	CFR1/8-TJ-2K20
#R407	Metal Film Chip Res 0805 470R 1 S	CFR-0805-470RJ
#R408	Metal Film Chip Res 0805 470R 1 S	CFR-0805-470RJ
R409	Solid Res.1/8W TJ 1.2K 1 D	CFR1/8-TJ-1K20
#R410	Metal Film Chip Res 0805 8.2K . 1 S	CFR-0805-8K20J
#R916	Metal Film Chip Res. 0805 4.7K 1 S	CFR-0805-4K70J
#R917	Metal Film Chip Res. 0805 4.7K 1 S	CFR-0805-4K70J
#R918	Metal Film Chip Res. 0805 Jumper 1 S	CFR-0805-0R00O
R919	Solid Res. EJ 1.5K 1 D	CFR1/8-EJ-1K50
R923	Solid Res.1/8W TJ 10K 1 D	CFR1/8-TJ-10K0
R924	Solid Res.1/8W TJ 10K(ON VR501 SQ) 1 D	CFR1/8-TJ-10K0
R925	Solid Res.1/8W TJ 10K 1 D	CFR1/8-TJ-10K0
#R926	Metal Film Chip Res 0805 1K . 1 S	CFR-0805-1K00J
#R927	Metal Film Chip Res 0805 47K. 1 S	CFR-0805-47K0J
#R928	Metal Film Chip Res 0805 1K . 1 S	CFR-0805-1K00J
#R929	Metal Film Chip Res 0805 10K . 1 S	CFR-0805-10K0J
R930	Solid Res.1/8W EJ 10K 1 D	CFR1/8-EJ-10K0
R931	Solid Res.1/8W UJ 150K 1 D	CFR1/8-U8-150K
R932	Solid Res.1/4W TJ 82K 1 D	CFR1/4-TJ-82K0
R933	Solid Res.1/4W TJ 10K 1 D	CFR1/4-TJ-10K0
#R934	Metal Film Chip Res 0805 220 Ohms . 1 S	CFR-0805-220RJ
R935	Solid Res.1/8W EJ 330 Ohms 1 D	CFR1/8-EJ-330R

REF #	Description	Part #
RV	Solid Res. TJ 120K (For D033 & R104,R105) 1 D	CFR1/8-TJ-120K
VR01	Variable B 10K OHMS 1 D	ELC-CFTH-B103
VR04	Variable B 500K OHMS 1 D	POT-SFH8M-B504
VR05	Variable B 10K OHMS 1 D	ELC-CFTH-B103
VR08	Variable B 100K OHMS 1 D	ELC-CFTH-B104
VR10	Carbon F Trimmer H Typ 100B 1 D	ELC-CFTH-B101
VR11	Trim Pot Semifix B1K OD=10.5mm H Type 1 D	+POT-SF01-B102
VR13	Trim Pot Semifix OD=10.5mm H Type PCB 1 D	+POT-SF01-B502
VR14	Trim Pot Semifix B1K OD=10.5mm H Type 1 D	+POT-SF01-B102
VR20	Carbon F Trimmer H Typ 100B 1 D	ELC-CFTH-B101
VR21	Variable B 1K OHMS 1 D	POT-SFV6M-B102
VR22	Variable 10K OHMS 1 D	POT-SFV6M-B103

Magnum S3 Parts List
MISCELLANEOUS ON MAIN PCB

REF #	Description	Part #
J004	Jumper Wire 29mm 1 D	JWRA06TP029X
J005	Jumper Wire 15mm 1 D	JWRA06TP015X
J006	Jumper Wire 6mm 1 D	JWRA06TP006X
J007	Jumper Wire 15mm 1 D	JWRA06TP015X
J008	Jumper Wire 5.5mm 1 D	JWRA06TP5R5X
J011	Jumper Wire 6mm 1 D	JWRA06TP006X
J012	Jumper Wire 20mm 1 D	JWRA06TP020X
J013	Jumper Wire 8mm 1 D	JWRA06TP008X
J014	Jumper Wire 12.5mm 1 D	JWRA06TP12R5X
J018	Jumper Wire 8mm 1 D	JWRA06TP008X
J019	Jumper Wire 24.5mm 1 D	JWRA06TP24R5X
J020	Jumper Wire 15mm 1 D	JWRA06TP015X
J021	Jumper Wire 35mm 1 D	JWRA06TP035X
J022	Jumper Wire 8mm 1 D	JWRA06TP008X
J023	Jumper Wire 25.5mm 1 D	JWRA06TP25R5X
J024	Jumper Wire 6mm 1 D	JWRA06TP006X
J025	Jumper Wire 8.5mm 1 D	JWRA06TP8R5X
J026	Jumper Wire 14mm 1 D	JWRA06TP014X
J027	Jumper Wire 14mm 1 D	JWRA06TP014X
J028	Jumper Wire 14mm 1 D	JWRA06TP014X
J029	Jumper Wire 20mm 1 D	JWRA06TP020X
J030	Jumper Wire 6mm 1 D	JWRA06TP006X
J031	Jumper Wire 7mm 1 D	JWRA06TP007X
J032	Jumper Wire 15mm 1 D	JWRA06TP015X
J033	Jumper Wire 7mm 1 D	JWRA06TP007X
J034	Jumper Wire Copper DIA.0.6x18mm Formed 1 D	JWRA06TP018X
J035	Jumper Wire 6mm 1 D	JWRA06TP006X
J037	Jumper Wire 22.5mm 1 D	JWRA06TP22R5X
J038	Jumper Wire 13.5mm 1 D	JWRA06TP13R5X
J039	Jumper Wire 12mm 1 D	JWRA06TP012X
J040	Jumper Wire 8mm 1 D	JWRA06TP008X
J041	Jumper Wire 14mm 1 D	JWRA06TP014X
J042	Jumper Wire 6.5mm 1 D	JWRA06TP6R5X
J043	Jumper Wire 8mm 1 D	JWRA06TP008X
J044	Jumper Wire 6mm 1 D	JWRA06TP006X
J045	Jumper Wire 7mm 1 D	JWRA06TP007X
J046	Jumper Wire 11.5mm 1 D	JWRA06TP11R5X
J049	Jumper Wire 5mm 1 D	JWRA06TP005X
J050	Jumper Wire 6mm 1 D	JWRA06TP006X
J051	Jumper Wire 9mm 1 D	JWRA06TP009X
J052	Jumper Wire 7mm 1 D	JWRA06TP007X
J053	Jumper Wire 10mm 1 D	JWRA06TP010X
J054	Jumper Wire 15mm 1 D	JWRA06TP015X
J058	Jumper Wire 11mm 1 D	JWRA06TP011X
J059	Jumper Wire 18mm 1 D	JWRA06TP018X
J060	Jumper Wire 7.5mm 1 D	JWRA06TP7R5X
J061	Jumper Wire 7.5mm 1 D	JWRA06TP7R5X
J062	Jumper Wire 7.5mm 1 D	JWRA06TP7R5X
J063	Jumper Wire 7.5mm 1 D	JWRA06TP7R5X
J064	Jumper Wire 18.5mm 1 D	JWRA06TP18R5X
J065	Jumper Wire 9mm 1 D	JWRA06TP009X
J066	Jumper Wire 5mm 1 D	JWRA06TP005X
J067	Jumper Wire 4.5mm 1 D	JWRA06TP4R5X

Magnum S3 Parts List
MISCELLANEOUS ON MAIN PCB

REF #	Description	Part #
J068	Jumper Wire 4mm 1 D	JWRA06TP004X
J076	Jumper Wire 10.5mm 1 D	JWRA06TP10R5X
J077	Jumper Wire 13.5mm 1 D	JWRA06TP13R5X
J078	Jumper Wire 15mm 1 D	JWRA06TP015X
J085	Jumper Wire 9mm 1 D	JWRA06TP009X
J087	Jumper Wire 7mm 1 D	JWRA06TP007X
J088	Jumper Wire 6mm 1 D	JWRA06TP006X
J091	Jumper Wire 4mm 1 D	JWRA06TP004X
J092	Jumper Wire 5.5mm 1 D	JWRA06TP5R5X
J093	Jumper Wire 4.5mm 1 D	JWRA06TP4R5X
J094	Jumper Wire 12.5mm 1 D	JWRA06TP12R5X
J095	Jumper Wire 8mm 1 D	JWRA06TP008X
J096	Jumper Wire 4mm 1 D	JWRA06TP004X
J098	Jumper Wire 15mm 1 D	JWRA06TP015X
J101	Connector 4 PINS ASS'Y 1 D	CON-SHL4-001
J102	Connector 3 PINS ASS'Y 1 D	CON-SHL3-001
J103	Connector 12 PINS ASS'Y 1 D	CON-SHL12-001
J104	Connector 4 PINS ASS'Y 1 D	CON-SHL4-002
J106	Connector 2 PINS ASS'Y 1 D	CON-SHL2-002
J108	Connector 14 PINS ASS'Y 1 D	CON-SHL14-001
J109	Connector 2 PINS ASS'Y 1 D	CON-SHL2-002
J110	Jumper Wire 10mm 1 D	JWRA06TP010X
J111	Jumper Wire 4.5mm 1 D	JWRA06TP4R5X
J114	Jumper Wire 10mm 1 D	JWRA06TP010X
J115	Jumper Wire 7mm 1 D	JWRA06TP007X
J116	Jumper Wire 12.5mm 1 D	JWRA06TP12R5X
J117	Jumper Wire 20mm 1 D	JWRA06TP020X
J122	Connector 3 PINS ASS'Y 1 D	CON-SHL3-001
J150	Jumper Wire 15mm 1 D	JWRA06TP015X
J151	Jumper Wire 5mm 1 D	JWRA06TP005X
J501	Connector DIA.3.5mm For PA. SP. 1 D	CNRP00F159
J502	Connector DIA.3.5mm For EXT. SPKR 1 D	CNRP00F159
J912	Jumper Wire 15mm 1 D	JWRA06TP015X
J913	Jumper Wire 5.5mm 1 D	JWRA06TP5R5X
JA2	Jumper Wire Enamelled Copper D1.2xL10mm 1 D	JWRA12EC010X
JA3	Jumper Wire Enamelled Copper D1.2x15mm 1 D	JWRA12EC015X
P704	CONNECTOR 5 POLES ON MAIN PCB 1 D	CBE-SW5-011
TP07	Clip For Coil Board 1 D	MTL-A-0168
TP08	Clip For Coil Board 1 D	MTL-A-0168
TP09	Clip For Coil Board 1 D	MTL-A-0168
X001	Crystal 10.2400MHz (HC-49/U) 1 D	XL-C49U-10M24A
X002	Crystal 14.01495MHz (HC-49/U) 1 D	XTLC14M0100A1
X004	Crystal 10.6975MHz (HC-49/T) 1 D	XTL-10M6975-01
1	Insulator On Shield Plate-A 1	MLS-A-0136
2	Insulator On Shield Plate-B 2	MLS-A-0137
3	Shield Plate-A 21.5x21.5mm On S.S. 1	MTL-A-0157
4	Shield Plate-B 39x18m On S.S. 1	MTL-A-0158
5	Main Board Assembly 1	ACS-MB9821-04

Magnum S3 Parts List

PARTS ON CPU CHANNEL PCB CAPACITOR

REF #	Description	Part #
C701	Cer. Chip Cap. 0805 CH 10pF 1 S	CC0805-5C-100D
C702	Cer. Chip Cap. 0805 CH 10pF 1 S	CC0805-5C-100D
C703	Elect. Cap. 10uF/16V 1 D	ECM-16R04-100M
C704	ECAP 220uF 16V 1 D	ECS-16R06-221M
C705	Cer. Chip Cap. 0805 Y5V 0.1uF 1 S	CC0805-2Y-104Z
C706	Cer. Chip Cap. 0805 Y5V 0.1uF 1 S	CC0805-2Y-104Z
C707	Cer. Chip Cap. 0805 Y5V 0.1uF 1 S	CC0805-2Y-104Z
C708	Cer. Chip Cap. 0805 Y5V 0.1uF 1 S	CC0805-2Y-104Z
C730	Cer. Chip Cap. 0805 Y5V 0.1uF 1 S	CC0805-2Y-104Z
C731	Cer. Chip Cap. 0805 Y5V 0.1uF 1 S	CC0805-2Y-104Z
C732	Cer. Chip Cap. 0805 Y5V 0.1uF 1 S	CC0805-2Y-104Z
C733	Cer. Chip Cap. 0805 Y5V 0.1uF 1 S	CC0805-2Y-104Z

DIODE

REF #	Description	Part #
D702	Switch Diode 1 D	DDE1N4148

I.C.

REF #	Description	Part #
IC701	MDT2030P 8-Bit MOS Version:S3-3 (Prog) 1 D	IC-DIP-2030P
IC702	1k Serial EEPROM 93C-46-10PC2.7 ATMEL 1 D	IC-DIP-93C46P
IC703	I.C. MC7805CT 1 D	IC-IM-MC7805CT
IC704	74HC164AFN 14 Pins 1 S	IC-SOL-74HC164
IC705	74HC164AFN 14 Pins 1 S	IC-SOL-74HC164
IC707	74HC165 16 Pins 1 S	IC-SOL-74HC165
IC708	74HC165 16 Pins 1 S	IC-SOL-74HC165

TRANSISTOR

REF #	Description	Part #
Q701	Transistor STS9013H 1 D	TTR9013H-A
Q702	Transistor STS9013H 1 D	TTR9013H-A
Q704	Transistor KTA1267Y 1 D	TR-TO92-A1267Y

RESISTOR

REF #	Description	Part #
R701	OHM 5.1K OHM x 9R/10PIN 1 D	RNSL10E512J TY
R704	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R705	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R706	Metal Chip Res. 560 Ohms +-5% 0805 1 S	CFR-0805-560RJ
R707	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R708	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R709	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R710	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R711	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R712	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R713	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R714	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R715	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J
R716	Metal Film Chip Res 0805 1K 5% 1/10W. 1 S	CFR-0805-1K00J

Magnum S3 Parts List**PARTS ON CPU CHANNEL PCB**

REF #	Description	Part #
R717	Metal Chip Res. 0805 5.1K 1 S	CFR-0805-5K10J
R718	Metal Chip Res. 0805 5.1K 1 S	CFR-0805-5K10J
R720	Metal Chip Res. 0805 1K 1 S	CFR-0805-1K00J
R721	Metal Chip Res. 0805 6.8K 1 S	CFR-0805-6K80J
R730	Metal Chip Res. 0805 12K 1 S	CFR-0805-12K0J
R731	Metal Chip Res. 0805 39K 1 S	CFR-0805-39K0J
R732	Metal Chip Res. 0805 33K 1 S	CFR-0805-33K0J
R734	TYOHM 5.1K OHM x 9R/10PIN 1 D	RNSL10E512J
R735	Metal Chip Res. 560 Ohms 0805 1 S	CFR-0805-560RJ
R737	Metal Chip Res. 1M 0805 1 S	CFR-0805-1M00J
R738	Res. Network 47Kx7R/ 8 Pins 1 D	RNSL08E473J
R739	Metal Film Chip Res 0805 10K 1 S	CFR-0805-10K0J
R740	Metal Film Chip Res 0805 10K 1 S	CFR-0805-10K0J
R741	2.54mm P. 2 Pins Wafer Header 1 D	CNRP02M313
R742	2.54mm P. 2 Pins Wafer Header 1 D	CNRP02M313

MISCELLANEOUS

REF #	Description	Part #
CN701	Str.Header/Lock 9P 2.5mm 1 D	CON-SHL9-001
CN704	Str.Header/Lock 5P 2.5mm 1 D	CON-SHL5-001
L701	Inductor 1mH 1 D	CILCEC36102K
SW701	Pulse Switch For Channel 1 D	SWH-RPUS40-01
X701	Fundamental X'tal 3.6864MHz 1 D	XTL-H49US-3M68
1	Nut For IC703 2	NUT-MTL-0001
2	Screw For IC703 1	MTS-PPPM5-3MX6
3	Channel Switch Bracket 1	MTL-A-0239
4	Mini Jumper 2.5 Pitch Open Cover 2	MLS-C-0026
5	1	**PCBX-0321R1
6	IC Socket 18P Dip FOR IC701 1	ICSK-18P-DSR7

PARTS ON DISPLAY PCB

REF #	Description	Part #
D309	LED D=3mm Round Bi-Color & Bi-Polar Lamp 1 D	LED-R-0021RGM
P102	CONNECTOR 3 POLES ON DISPLAY PCB 1 D	CBE-SW3-001
E01	2 Digits LED Display 0.4" Blue C Anode 1 D	LED-2DIG0.4-05
E03	Channel Display PCB 1	PCB-CDB-9703

PARTS ON MIC PCB

REF #	Description	Part #
C502	Cer. YF 0.0047uF 1 D	CDC-50YF-472Z
C503	Cer. YR 0.001uF 1 D	CDC-25YR-102K
C504	Cer. YR 0.001uF 1 D	CDC-25YR-102K
L501	Choke 5.6uH 1 D	CIL-T-0024
L502	Ferrite (With Wire TJ Type) 1 D	MLS-C-0045
P122	Connector 3 Poles W/ Wire 1 D	CBE-SW3-002
1	P C Board On Mic Socket 1	PCB-MSB-9709

Magnum S3 Parts List

PARTS ON SWR PCB

REF #	Description	Part #
C401	Cer. Disc Cap. YF 0.01uF. 1 D	CDC-50YF-103Z
C402	Cer. Disc Cap. YF 0.01uF 1 D	CDC-50YF-103Z
D401	Detector Diode 1N60P 1 D	DDET-AX-1N60P
D402	Detector Diode 1N60P 1 D	DDET-AX-1N60P
R401	Solid Res. TJ 100 Ohms 1 D	CFR1/4-TJ-100R
R402	Solid Res. TJ 150 Ohms 1 D	CFR1/4-TJ-150R
F01	PC Board SWR Board 1	PCB-SWR-9306
F02	SPACER 15x14x16mm FOR SWR PCB 1	MLS-A-0139

TOP GUN MODULATOR

REF #	Description	Part #
	Modulator Module MD-1	+ACS-MDLR-002

TOP GUN COMPACTOR

REF #	Description	Part #
	Compressor Module	+ACS-CPSR-002

Coil PCB

REF #	Description	Part #
H01	PC Board Coil	PCB-CTLB-9309

PARTS ON ECHO PCB

CAPACITOR

REF #	Description	Part #
C1	ECAP 22uF 16V +-20% 1 D	ECM-16R04-220M
C2	Cer. Chip Cap. Y5R 0.022uF 1 S	CC0805-5X-223K
C3	ECAP 47uF 16V +-20% 1 D	ECM-16R05-470M
C4	Cer. Chip Cap. Y5V 0.1uF 1 S	CC0805-2Y-104Z
C5	ECAP 1uF 50V +-20% 1 D	ECM-50R04-1U0M
C6	ECAP 100uF 10V 1 D	ECM-10R05-101M
C7	Cer. Chip Cap. Y5R 0.022uF 1 S	CC0805-5X-223K
C8	ECAP 0.1uF 50V +-20% DxL=4x7mm Pi=1.5mm 1 S	ECM-50R04-0U1M
C9	Cer. Chip Cap. CG 470PF 1 S	CC0805-5C-471J
C10	Cer. Chip Cap. CG 470PF 1 S	CC0805-5C-471J
C11	ECAP 1uF 50V +-20% 1 D	ECM-50R04-1U0M
C12	ECAP 1uF 50V +-20% DxL=4x7mm Pi=1.5mm 1 D	ECM-50R04-1U0M
C13	Cer. Chip Cap. X7R 0.01uF 1 S	CC0805-5X-103K
C15	ECAP 1uF 50V +-20% DxL=4x7mm Pi=1.5mm 1 S	ECM-50R04-1U0M
C16	Polyester Film Cap. 0.1uF/50V 1 D	PFC-50P5-104K
C17	ECAP 0.47uF 50V +-20% 1 D	ECM-50R04-U47M
C18	ECAP 0.47uF 50V +-20% 1 D	ECM-50R04-U47M
C19	ECAP 47uF 16V +-20% 1 D	ECM-16R05-470M
C20	Cer. Chip Cap. Y5V 0.1uF 1 S	CC0805-2Y-104Z
C21	Cer. Chip Cap. X7R 0.01uF 1 S	CC0805-5X-103K
C22	Polyester Film Cap. 0.1uF/50V 1 D	PFC-50P5-104K
C23	Cer. Chip Cap. X7R 0.01uF 1 S	CC0805-5X-103K

Magnum S3 Parts List
PARTS ON ECHO PCB

REF #	Description	Part #
C24	Cer. Chip Cap. X7R 0.001uF 1 S	CC0805-5X-102K
C25	ECAP 1uF 50V +-20% 1 D	ECM-50R04-1U0M
C26	ECAP 1uF 50V +-20% DxL=4x7mm Pi=1.5mm 1 S	ECM-50R04-1U0M
C27	Cer. Chip Cap. CG 470PF 1 S	CC0805-5C-471J
C28	ECAP 1uF 50V +-20% DxL=4x7mm Pi=1.5mm 1 S	ECM-50R04-1U0M
C29	Cer. Chip Cap. Y5V 0.1uF 1 S	CC0805-2Y-104Z
C30	Cer. Chip Cap. 50V X7R 0.01uF. 1 S	CC0805-5X-103K
C31	Cer. Chip Cap. CG 470PF 1 S	CC0805-5C-471J
C32	Cer. Chip Cap. CG 470PF 1 S	CC0805-5C-471J
C34	ECAP 1uF 50V DxL=5x11mm Pi=2mm 1 D	ECS-50R05-1U0M
C35	Cer. Chip Cap. 0805 50V CH 470pF. 1 S	CC0805-5C-471J
C36	ECAP 0.22uF 50V 1 D	ECS-50R05-U22M
C37	Cer. Chip Cap. 0805 50V 0.001uF 1 S	CC0805-5X-102K
C38	ECAP 10uF 25V 1 D	ECS-25R05-100M
C39	Cer. Chip Cap. 0805 25V Y5V 0.1uF. 1 S	CC0805-2Y-104Z
C40	ECAP 220uF 16V 1 D	ECS-16R06-221M
C41	Cer. Chip Cap. 0805 50V 0.001uF 1 S	CC0805-5X-102K
C42	ECAP 100uF 16V 1 D	ECS-16R06-101M
C43	ECAP 470uF 16V 1 D	ECS-16R08-471M
C44	ECAP 47uF 16V 1 D	ECS-16R05-470M
C45	Cer. YR 0.001uF 1 D	CDC-25YR-102K
C46	Polyester Film Cap 50V 0.1uF 1 D	PFC-50P5-104K
C47	ECAP 470uF 16V 1 D	ECS-16R08-471M
C48	Cer. Disc Cap.25V YR 0.1uF 1 S	CDC-25YR-104K
C49	Cer. Chip Cap. 0805 50V X7R 0.047uF 1 S	CC0805-5X-473K
C51	Cer. Chip Cap. 0805 100pF For IC1 7~8Pin. 1 S	CC0805-5C-101J
C50	Cer. Chip Cap. 0805 50V CH 470pF. 1 S	CC0805-5C-471J
C52	ECAP 47uF 16V 1 s	ECS-16R05-470M

RESISTOR

REF #	Description	Part #
R1	Metal Chip Res. 100 1 S	CFR-0805-100RJ
R2	Metal Chip Res. 220 1 S	CFR-0805-220RJ
R3	Solid Res. EJ 22K 1 D	CFR1/8-EJ-22K0
R4	Metal Chip Res. 22K 1 S	CFR-0805-22K0J
R5	Solid ReS. TJ 4.7K 1 D	CFR1/8-TJ-4K70
R6	Metal Film Chip Res 0805 150K 1 S	CFR-0805-150KJ
R7	Metal Chip Res. 15K 1 S	CFR-0805-15K0J
R8	Metal Chip Res. 10K 1 S	CFR-0805-10K0J
R9	Carbon Film Res.1/8W UJ 33K +-5% Pi=7mm 1 S	CFR1/8-UJ-33K0
R10	Metal Chip Res. 33 1 S	CFR-0805-33R0J
R11	Solid Res. EJ 3K 1 D	CFR1/8-EJ-3K00
R12	Metal Film Chip Res. 0805 30K 1 S	CFR-0805-30K0J
R13	Metal Film Chip Res 0805 1K. 1 S	CFR-0805-1K00J
R14	Metal Chip Res. 20K 1 S	CFR-0805-20K0J
R15	Metal Chip Res. 15K 1 S	CFR-0805-15K0J
R16	Carbon Film Res.1/8W EJ 75K +-5% 1 D	CFR1/8-EJ-75K0
R17	Metal Chip Res. 15K 1 S	CFR-0805-15K0J
R18	Metal Chip Res. 100K 1 S	CFR-0805-100KJ
R19	Metal Film Chip Res 0805 100K . 1 S	CFR-0805-100KJ
R20	Metal Chip Res. 22K 1 S	CFR-0805-22K0J

Magnum S3 Parts List
PARTS ON ECHO PCB

REF #	Description	Part #
R21	Metal Chip Res. 3.3K 1 S	CFR-0805-3K30J
R23	Metal Chip Res. 120K 0805 1 S	CFR-0805-120KJ
R24	Metal Film Chip Res 0805 100R . 1 S	CFR-0805-100RJ
R25	Metal Film Chip Res 0805 4.7K . 1 S	CFR-0805-4K70J
R26	Metal Film Chip Res 0805 4.7K. 1 S	CFR-0805-4K70J
R27	Metal Chip Res. 4.7K 1 S	CFR-0805-4K70J
R28	Metal Chip Res. 10K 1 S	CFR-0805-10K0J
R33	Carbon Film Res.1/8W EJ 220K +-5% 1 D	CFR1/8-EJ-220K
R34	Metal Film Chip Res 0805 1M . 1 S	CFR-0805-1M00J
R35	Metal Film Chip Res 0805 4.7K . 1 S	CFR-0805-4K70J
R36	Metal Film Chip Res 0805 1K . 1 S	CFR-0805-1K00J
R37	Metal Film Chip Res 0805 4.7K . 1 S	CFR-0805-4K70J
R38	Metal Film Chip Res 0805 1K . 1 S	CFR-0805-1K00J
R39	Metal Chip Res. 10K 1 S	CFR-0805-10K0J
R40	Carbon Film Res.1/8W TJ 47 Ohms +-5% 1 D	CFR1/8-TJ-47R0
R41	Metal Chip Res. 56 0805 1 S	CFR-0805-56R0J
R42	Solid Res. EJ 1 Ohms 1 D	CFR1/8-EJ-1R00
R43	Carbon Film Res.1/8W EJ 82 Ohms +-5% 1 D	CFR1/8-EJ-82R0
VR1	Variable Res. Horizontal B10K 1 D	POT-SFV6M-B103
VR2	Variable Res. Horizontal B50K 1 D	POT-SFV6M-B503

DIODE

REF #	Description	Part #
D1	Switching Diode 1N4148 1 D	DDE1N4148
D2	Zener Diode 12V 0.5W 1 D	DDE-C12V0G
D3	Switching Diode 1N4148 1 D	DDE1N4148
D4	Switching Diode 1N4148 1 D	DDE1N4148

I.C. & TRANSISTOR

REF #	Description	Part #
IC1	LM358M N.S. I.C. 1 S	ICT358M
IC2	Digital Echo I.C. DIP 14P4 M65850P 1 D	IC-DIP-M65850P
IC3	5V/0.1A Regulator I.C. UPC78L05 1 D	IC-5VREG-78L-1
IC4	TBA820M 1 D	ICT820M
TR1	Transistor 2SA945P 1 D	TTR2SC945P
TR2	Transistor 2SA945P 1 D	TTR2SC945P
TR3	Transistor 2SA945P 1 D	TTR2SC945P

MISCELLANEOUS

REF #	Description	Part #
J1	Str.Header/Lock 3P 2.5mm Pitch 1 D	CON-SHL3-002
J2	Str.Header/Lock 3P 2.5mm Pitch 1 D	CON-SHL3-001
J3	Str.Header/Lock 6P 2.5mm Pitch 1 D	CON-SHL6-002
J4	Str.Header/Lock 2P 2.5mm Pitch 1 D	CON-SHL2-002
J5	Str.Header/Lock 2P 2.5mm Pitch 1 D	CON-SHL2-001
J6	Jumper Wire Copper DIA.0.6x7.5mm Formed 1 D	JWRA06TP7R5X
J7	Jumper Wire Copper DIA.0.6x18.5mm Formed 1 D	JWRA06TP18R5X
J8	Jumper Wire Copper DIA.0.6x6mm Formed 1 D	JWRA06TP006X
J10	Jumper Wire Copper DIA.0.6x6.5mm Formed	JWRA06TP6R5X
J12	Str.Header/Lock 3P 2.5mm 1 D	CON-SHL3-001
J13	Str.Header/Lock 3P 2.5mm 1 D	CON-SHL3-004
1	Bracket For Echo PCB 1mm Iron Zinc 2	MTL-A-0330
2	Screw Philips B/H-B M3x6mm Zi Gold 1	MTL-STS-003
3	Skt/Wire 2P P2.5mm 1	CBE-SW2-003
5	Iraxtube Black ID=0.7mm L=10mm For JA 1	ACS-IR0.7-011
8	Relay DC-12V 1P2T 1	RLYD012V1202
9	Echo Talkback Board 90x45mm HB NS Mark 1	PCB-ETB-0319R4

Magnum S3 Parts List

PARTS ON SWR PCB

CAPACITOR

REF #	Description	Part #
C1	ECAP 1uF 50V +-20% DxL=4x7mm Pi=1.5mm 1 D	ECM-50R04-1U0M
C2	ECAP 2.2uF 50V +-20% DxL=4x7mm Pi=1.5mm 1 D	ECM-50R04-2U2M
C7	ECAP 1uF 50V +-20% DxL=4x7mm Pi=1.5mm 1 D	ECM-50R04-1U0M
C8	Cer. Disc Cap.25V YF 0.047uF +80-20% 1 D	CDC-25YF-473Z
C9	ECAP 10uF 16V +-20% DxL=4x7mm Pi=1.5mm 1 D	ECM-16R04-100M
C10	Cer. Disc Cap.25V YF 0.047uF +80-20% 1 D	CDC-25YF-473Z
C11	Cer. Disc Cap. YF 0.01uF (Y5V) 50V Semi. 1 D	CDC-50YF-103Z
C12	ECAP 1uF 50V +-20% DxL=4x7mm Pi=1.5mm 1 D	ECM-50R04-1U0M

RESISTOR

REF #	Description	Part #
R1	Carbon Film Res.1/8W EJ 1K +-5% 1 D	CFR1/8-EJ-1K00
R4	Carbon Film Res.1/8W TJ 2.2K +-5% 1 D	CFR1/8-TJ-2K20
R5	Solid Res. TJ 100K 1 D	CFR1/8-TJ-100K
R6	Solid Res. 220K 1 D	CFR1/8-U8-220K
R7	Solid Res. TJ 330K 1 D	CFR1/8-TJ-330K
R8	Carbon Film Res.1/8W UJ 15K +-5% Pi=7mm 1 D	CFR1/8-U8-15K0
R9	Carbon Film Res.1/8W UJ 120K +-5% Pi=7mm 1 D	CFR1/8-U7-33K0
R10	Carbon Film Res.1/8W TJ 100K +-5% 1 D	CFR1/8-TJ-100K
R11	Solid Res. TJ 200K 1 D	CFR1/8-TJ-200K
R12	Solid Res. TJ 1M 1 D	CFR1/8-TJ-1M00
R13	Solid Res. TJ 330K 1 D	CFR1/8-TJ-330K
R14	Carbon Film Res.1/8W EJ 100K +-5% 1 D	CFR1/8-EJ-100K
R15	Solid Res. TJ 100K 1 D	CFR1/8-TJ-100K
VR1	Trim POT Semifix W=6mm 50KB(On S.S) 1 D	POT-SFV6M-B503

TRANSISTOR & I.C

REF #	Description	Part #
TR02	Transistor 2SC945AP 1 D	TTR2SC945P
IC001	IC NJM2904D Package Dip8 NJRC. 1 D	ICT2904D

MISCELLANEOUS

REF #	Description	Part #
D1	Switching Diode 1N4148 1 D	DDE1N4148
D2	Switching Diode 1N4148 1 D	DDE1N4148
J1	Str.Header/Lock 5P 2mm Pitch ILS5PS2T2EF 1 D	CON-SHL5-004
J2	Str.Header/Lock 5P 2mm Pitch ILS5PS2T2EF 1 D	CON-SHL5-004
JP1	Jumper Wire Copper DIA.0.6x8.5mm Formed 1 D	JWRA06TP8R5X
JP2	Jumper Wire Copper DIA.0.6x4.5mm Formed 1 D	JWRA06TP4R5X
JP3	Jumper Wire Copper DIA.0.6x7mm Formed 1 D	JWRA06TP007X
P1	SKt/Wire 5P Pi=2MM ILS5SS2C2/1571 1 D	CBE-SW5-012
P2	SKt/Wire 5P Pi=2MM ILS5SS2C2/1571 1 D	CBE-SW5-012
1	Machine Thread Screw Philips 1	MTS-PPPM5-3MX6
2	Bracket For Echo PCB 1mm Iron Zinc 1	MTL-A-0330
3	S.Tap Screw Philips B/H-B 3x6mm Zi Gold 1	MTL-ST5-003
5	SWR Board 49x34mm HB 1.6mm Thk' NS Mark 1	PCB-SWR-0309R2

Magnum S3 Parts List
MECHANICAL PARTS

REF #	Description	Part #
1	Center Knob For VOL & MIC Gain 3	ACS-DKIR11-009
2	Center Knob For MIC Gain 1	ACS-DKIR11-010
3	Side Knob For SQL & RF Gain 3	ACS-DKOR15-001
4	Side Knob For RF Gain 1	ACS-DKOR15-002
5	Band Knob For PA/FM,E-Tone 1	ACS-SKR16-002
6	Solder Terminal On Mic PCB 1	MTL-A-0016
7	Solder Terminal On ANT. Socket 1	MTL-A-0126
8	Clip In Channel Knob 1	MTL-A-0161
9	Clip In Side Knob 4	MTL-A-0162
10	Clip In Center Knob 4	MTL-A-0163
11	Speaker Clip 4	MTL-A-0174
13	Top Cover 1	MTL-CBMH-TC07
14	Bottom Cover 1	MTL-CBMH-BC07
15	Guided Plate For Mode SW. 1	MTL-A-0248
17	Main Frame 1	MTL-MFCBM-006
18	Front Mounting 1	MTL-FPM-009
20	Bracket For Mic Socket 1	MTL-MBT-005
21	Screw B/H BT3x6 Z Fixed PCB & Bracket 6	MTL-ST5-003
23	Washer-T DIA.3 N Fixed SPKR & DC SKT 6	MTL-WLT-001
24	Nut M3 N Fixed SPKR & DC SKT 5	NUT-MTL-0001
25	Nut M2.6 N Fixed TR043, TR044,TR056 3	NUT-MTL-0004
26	Screw K/H M2x5 N Fixed SlideSwitch 6	MS-MTL-0056
27	Screw K/H M3x8 N Fixed Panel 4	MS-MTL-0083
28	Screw B/H M3x4 N Fixed Channel SW. 2	MS-MTL-0094
30	Screw B/H M3x10 N Fixed DC Socket 2	MS-MTL-0127
31	Screw B/H M2.6x6N Fixed TR041 1	MTL-ST5-037
32	Machine Screw B/H M2.5x4mm P=0.45mm Ni 2	MS-B2M5-04L01
33	Screw P/H M3x6 Plastic For IC008 1	MS-MTL-0160
35	Screw B/H M3x8 N Fixed Speaker 4	MS-MTL-0196
36	Screw B/H M3x6 N Fixed Cover 10	MS-MTL-0197
39	Screw B/H M3x6 N Fixed Front Mount & Echo 4	MTS-PPPM5-3MX6
40	Plastic Panel 1	PVC-FPL-006
41	Channel Knob For Channel Switch 1	PVC-SKC-001
42	Screw P/H M2.6x20mm For TR043,044,056 3	MS-P2M6-20L01
43	VCO Bottom Plate For L042,043,044 1	MTL-VC0BT-1030
44	Screw P/H BT3x14mm Fixed Heatsink 2	MTL-ST5-013
47	Screw P/H M2x6mm N For S506 2	MS-MTL-0033
48	Machine Screw P/H M2.6x10 Fixed TR51 1	MS-P2M6-10MP45
49	Connection Strip 22x5x4mm On TR56 S.S 1	MTL-CN5T-001
50	Connection Strip 14.5x5x4mm On TR43 S.S 1	MTL-CN5T-002

Magnum S3 Parts List
MISCELLANEOUS-1

REF #	Description	Part #
C506	Cer.YF 0.01uF ON DC Socket 1 D	CDC-50YF-103Z
C507	Cer.YF 0.01uF ON DC Socket 1 D	CDC-50YF-103Z
P01	Connector 3 Poles Echo To Main PCB 1 D	CBE-DS3-001
P03	Connector 6 Poles On VR505 & VR506 1 D	CBE-SW6-002
P12	Connector 3 Poles On Main PCB To Echo 1 D	CBE-SW3-004
P13	Connector 3 Poles On VR508 1	CBE-SW3-008
P101	Connector 4 Poles On VR502 1 D	CBE-SW4-001
P103	Connector 12 Poles On S502 1 D	CBE-SW12-001
P104	Connector 4 Poles On S507 1 D	CBE-SW4-002
P106	Connector 2 Poles On S507 1 D	CBE-SW2-001
P108	Connector 14 Poles On VR501 & VR504 1 D	CBE-SW14-001
P109	Connector 2 Poles On Speaker 1 D	CBE-SW2-001
P121	Connector 2 Poles On VR505/506 1 D	CBE-SW2-004
P701	Connector 9 Poles On S505 1 D	CBE-SW9-003
P801	Connector 6 Poles On EXT Counter 1 D	CBE-SW6-009
S501	Slide SW.For MODE Switch 1 D	SWH-S-0007
S502	Slide SW.For TOP GUN Mod Switch 1 D	SWH-S-0008
S503	Slide SW.For NB/ANL Switch 1 D	SWH-S-0008
S504	Slide SW.For +10KHz Switch 1 D	SWH-S-0008
S505	Rotary Switch 2P6T For Band Switch 1 D	RSW-2P6T18T-20
S506	Slide SW.For SWR Switch 1 D	SWH-S-0002
VR501	VariableB 50K OHMS VOL (VOL/SQL Control) 1 D	DP-SH12DO-503B
VR503	VariableB 1K OHMS RF/MIC GAIN 1 D	VRSN008B102
VR505	Dual Pot 1MB ECHO ON/OFF 1 D	DP-SH12DO-105B
VR507	Dual Pot 20K739Z/5KB For Power & TALK BACK 1 D	DPOT-H12-20/5K

MISCELLANEOUS-2

REF #	Description	Part #
1	Heat shrink Tubing L=10mm For TR041 3	ACS-HS02-007
2	Heat shrink Non UL ID=2mm L=15mm Clear 1	ACS-HS02N-001
3	Heat shrink Tubing ID=1.0mm L=11mm Black 1	ACS-HS1.0-L011
4	Heat shrink DIA.1.5x15mm For Meter 1	ACS-HS1.5-002
5	Heat shrink DIA.1.5x10mm For D603 5	ACS-HS1.5-003
6	Iraxtube Black ID=0.7mm L=4mm 2	ACS-IR0.7-003
7	Ceramic Insulator For TR043,044,051,056 4	CER-INS-002
8	Ceramic Spacer For TR043,044,056 3	CER-SPER-001
9	Connector ANT. Socket (Front Screw) 1	CNRM00F014
10	Connector 4 Pins Mic Socket 1	CNRM04M030
11	Connector 3 Poles DC Socket 1	CNRP03M306
12	Panel Meter S70 White Background Scale 1	ELC-PMR-008V1
13	Heat sink 72x38mm 4mm Thk' Aluminum 1	HSINK-72X38X4
14	Heat sink 87x26x40mm 1	HSINK-87X26X40
15	Heat shrink Non UL 26x10mm Color: Clear 1	HSNA260CL010
16	Serial Sticker On Frame 3	LBL-A-0290
17	Insulating Sticker 9.5x42x0.2mm 1	LBL-INS-001
18	Insulator 8x26.5mm For IC008 1	MLS-A-0109
19	Cable Tie 80mm 13	MLS-A-0118
20	Tape 10x190x0.8mm On Cover 2	MLS-A-0140
21	Mica Sheet 22x18.5mm T=0.1mm Hard Mica For TR051 1	MLS-A-0146
22	Insulator 92x92mm For Speaker 1	MLS-A-0166
23	Speaker DIA.90mm 8 OHMS 3W 1	MLS-C-0070
24	Dust Jacket OD=22mm On 504,505,506 3	PAD-DJT-002

Magnum S3 Parts List
MISCELLANEOUS-2

REF #	Description	Part #
25	Dust Jacket OD=26mm On 507 1	PAD-DJT-005
26	Spacer 30x10x10mm On Top Cover 3/2	PAD-RBC-3X1X1M
27	Spacer 6x12x8mm On Meter 2	PAD-SPAR-004
28	Spacer White Pad 1.5mm Paste MD-1,CP-1 2	PAD-SPAR-007
29	Schematic And Parts Layout of S-3 1	PIT-SCHPLO-01
30	Display Window 33x24.5mm 0.3mm Thk' Blue 1	PVC-DPYW-007
31	Front Panel Inlay S-3 Black Background 1	PVC-FPI-032R1
32	Front Panel Inlay S-3 OFF-Set 4 Color 1	PVC-FPI-033R1

WIRE LIST

REF #	Description	Part #
W101	1007 26# Black 60mm On VR502 To VR504 1	W2T-10-26BK060
W103	1007 26# Black 60mm On VR504 To Meter 1	W2T-10-26BK060
W104	1007 26# Blue 240mm On S505 To GND 1	W2T-10-26BU240
W105	Blue 145mm On ECHO PCB P5 to MAIN PCB 1	W2T-10-26BU145
W112	WIRE DIA.1.0x50mm On ANT. Socket 1	ACS-JMP10-001
W114	Wire Green L=360mm J104 to J501 GND 1	W2T-10-26GN360
W115	Wire Blue L=360mm J104 to J502 GND 1	W2T-10-26BU360
W116	Wire Black L=360mm J104 to J100 GND 1	W2T-10-26BK360
W201	Blue Wire L=50mm ON Main PCB D39 to VR21 1	W2T-10-26BU050
W202	Blue Wire L=50mm ON Main PCB to Main PCB 1	W2T-10-26BU050
W204	Red Wire L=50mm ON TR041 BASE 1	W2T-10-26RD050
W205	Wire UL1007 AWG 26 7/0.16 L=50mm Green 1	W2T-10-26GN050
W206	Blue Wire L=50mm ON TR041 METTER 1	W2T-10-26BU050
W207	Yellow Wire L=200mm MAIN PCB J3 to ECHO AF/OP 1	W2T-10-26YE200
W208	Orange Wire L=250mm MAIN PCB J3 to ECHO AF/IP 1	W2T-10-26OG250
W209	Wire L=80mm Blue 1	W2T-10-26BU080
W213	1007 26# Black 80mm S504 1	W2T-10-26BK080
W214	1 Wire L=120mm (L1 to Echo 'GND')	W2T-10-26WH120
W216	26# Black 45mm On Mic PCB To GND 1	W2T-10-26BK045
W217	Wire UL1007 L=280mm Red J84 to AMP 1	W2T-10-26RD280
W218	Wire UL1007 L=280mm Black R141 to GND 1	W2T-10-26BK280
1	Acc Kit Inner Box E-Flute 330x205mm 1	BOX-AKIB-002
2	Color Packing Box S-3 Blue Led Display 1	BOX-CPB-039
3	Inner Spacer Sheet E-Flute 47.5x41.5cm 3/6	BOX-ISPC-009
4	Outer Packing Carton 49x42x25.5cm 1/6	BOX-OPC-018
5	Power Cord Kit CB Mob. 10A Fuse W/3 1	CBE-PCK-005
6	Dynamic Hand Mic./4P Plug Magnum. 1	ELC-DHM-017
7	User Manual S-3 1	MAN-UML-059
8	PVC Packing Bag 250 x 180mm 1	PVC-PGB-002
9	Carton Box 1	MLS-A-0192
10	Carton Spacer 2	MLS-A-0194
11	Mounting Bracket MTL-A-0167 1	MTL-MBT-001
12	Mic. Holder MTL-A-0310 1	MTL-MHR-001
13	PVC Hd MT Screw PH M6x15mm Steel Zn Gold 4	MTL-PMS-001
14	S. Tap Screw Philips P-A #10x13mm Ni 4	MTL-STs-001
15	S. Tap Screw Philips BT 3.5x6mm Steel Ni 2	MTL-STs-004
16	Washer Lock Ext. Tooth M5.5 Steel Zn Plate 4	MTL-WLT-002
17	Washer Lock Ext. Toothed BW-3.5 HRC40 Zn 2	MTL-WLT-003
18	Bubble Bag 1	PVC-BPGB-0201
19	PVC Packing Bag 150 x 65mm 1	PVC-PGB-001
20	Warranty Card Mobile Amateur S-3 1	WAR-MAM-001
21	Rubber Washer OD16 ID6.5 For MTL-A-0167 4	WAS-RUB6M5-001
22	Screw B/H M2.6x8mm Ni 1	MS-MTL-0116