

ODS 102 HRM Project

Component	Make	value	Quantity	Description	a	b	Supplier Link
Transformers							
Power	Heyboer	Fender Twin	1				http://www.mojomusicalsupply.com/iter
Output	Heyboer	Marshall 100W	1				http://www.mojomusicalsupply.com/iter
Choke	Heyboer	?	1				http://www.mojomusicalsupply.com/iter
Relay supply	Radioshack	12v 450ma	1				http://www.radioshack.com/product/ind
Resistors							
Metal Film RN65	Vishay/Dale	150K	2	Plate load V1b & V2b			http://www.mouser.com/Search/Produc
		220K	2	Plate load V1a & V2a			http://www.mouser.com/Search/Produc
Metal Film	KOA Speer	100 Ohm	1	HRM Stack to Ground			http://www.mouser.com/Search/Produc
	KOA Speer	330 Ohm	1	LED Current Limiter			http://www.mouser.com/Search/Produc
	KOA Speer	390 Ohm	1	Presence			http://www.mouser.com/Search/Produc
	NTE Or Vishay/BC	820 Ohm		PI			http://www.mouser.com/Search/Produc
	NTE Or Koa Speer	1K	2	Relay Board			http://www.mouser.com/Search/Produc
	KOA Speer	2.2K	2	Cathode V1b & V2b			http://www.mouser.com/Search/Produc
	NTE ?	3.3K	2	Cathode V1a & V2a			http://www.mouser.com/Search/Produc
	KOA Speer	4.7K	1	OD Trim to Ground			http://www.mouser.com/Search/Produc
	Vishay/BC	5.1K	4	Grid Stoppers			http://www.mouser.com/Search/Produc
	KOA Speer Or Vishay/BC	8.2K	2	Fet Board			http://www.mouser.com/Search/Produc
	KOA Speer	10K	2	Fet B'rd & Bass pot to Ground			http://www.mouser.com/Search/Produc
	KOA Speer	22K	1	Grid Load V1a			http://www.mouser.com/Search/Produc
	NTE Or Vishay/BC	24K	1	PI			http://www.mouser.com/Search/Produc
	NTE Or Vishay/BC	27K	1	Bias Pot To Ground			http://www.mouser.com/Search/Produc

	KOA Speer	33K	1	HRM Slope		http://www.mouser.com/Search/Produc
	KOA Speer	68K	1	V2a Grid Load		http://www.mouser.com/Search/Produc
	NTE Or Vishay/BC	91K	1	Plate Load		http://www.mouser.com/Search/Produc
	KOA Speer	100K	3	J/R Sw, Lg 1 OD Dr & OD Mstr		http://www.mouser.com/Search/Produc
	NTE Or Vishay/BC	150K	1	Grid Load V2b		http://www.mouser.com/Search/Produc
	KOA Speer	200K	1	Pre OD Network		http://www.mouser.com/Search/Produc
	NTE Or Vishay/BC	220K	1	Grid Load V1b		http://www.mouser.com/Search/Produc
	KOA Speer	221K	2	Driver Load		http://www.mouser.com/Search/Produc
	KOA Speer Or Vishay/BC	270K	2	B+1 Cap Voltage Balance		http://www.mouser.com/Search/Produc
	KOA Speer	470K	9	B+2-5 Cap V Bal. & Pre OD N/W		http://www.mouser.com/Search/Produc
	KOA Speer	1M	4	Input Load, PI & Fet B'd		http://www.mouser.com/Search/Produc
Carbon Film	Xicon	110K	1	Plate Load		http://www.mouser.com/Search/Produc
	Xicon	150K	1	Slope in CI stack		http://www.mouser.com/Search/Produc
	Xicon	3.3M	1	Fet Board		http://www.mouser.com/Search/Produc
Power Oxide		1 Ohm @3W	4	From 6L6 Pin 8 To Ground		http://www.mouser.com/Search/Produc
		1K @5W	4	Screens		http://www.mouser.com/Search/Produc
		3K @5w	1	B+2		http://www.mouser.com/Search/Produc
		3.9K @ 2W	1	Bias Board		http://www.mouser.com/Search/Produc
		4.7K @ 3W	1	NFB		http://www.mouser.com/Search/Produc
		10K @ 3W	1	B+4		http://www.mouser.com/Search/Produc
		15K @ 3w	1	B+3		http://www.mouser.com/Search/Produc
		150K @ 2W	1	B+5 (FET Board)		http://www.mouser.com/Search/Produc
Capacitors						
Polyester	Sprague OD 6PS	.001uf	1	Bass Pot		http://www.tubesandmore.com/

		.002uf	1	Mid Boost Network		http://www.tubesandmore.com/
		.0022uf	1	V2a Coupling		http://www.tubesandmore.com/
		.01uf	1	Mid Cap		http://www.tubesandmore.com/
		0.02uf	1	PI		http://www.tubesandmore.com/
		.022uf	2	Mid, Bass HRM Board		http://www.tubesandmore.com/
		.047uf	2	Ground Lift, V1b Coupling		http://www.tubesandmore.com/
		.1uf	4	Bass Cap, PI		http://www.tubesandmore.com/
Alternative Polypropylene	Xicon MPP	.01uf	1	Mid Cap		http://www.mouser.com/Search/Produc
		0.02uf	1	PI		?
		.022uf	2	Mid, Bass HRM Board		http://www.mouser.com/Search/Produc
		.047uf	2	Ground Lift, V1b Coupling		http://www.mouser.com/Search/Produc
		.1uf	4	Bass Cap, PI		http://www.mouser.com/Search/Produc
Ceramic Disc	Vishay/ Sprague	47pf	2	Clean Master, OD Entrance		http://www.mouser.com/Search/Produc
	Xicon	120pf	1	Bright Switch		http://www.mouser.com/Search/Produc
		390pf	1	Mid Boost		http://www.mouser.com/Search/Produc
		500pf	2	HRM Treble, Grid Load B/p V1b		http://www.mouser.com/Search/Produc
		.005uf	1	Jazz/Rock		http://www.mouser.com/Search/Produc
		.01uf	5	Rectifier, Stanby Switch		http://www.mouser.com/Search/Produc
Mica		100pf	1	FET Board		http://www.mouser.com/Search/Produc
Electrolytic	Nichicon	1uf @50V	1	Presence		http://www.mouser.com/Search/Produc
	Sprague Atom	1uf @50V	1	Cathode Resistor Bypass		http://www.mouser.com/Search/Produc
	Nichicon	4.7uf @50V	2	FET Board		http://www.mouser.com/Search/Produc

	Sprague Atom	5uf @50V	3	Cathode Resistor Bypass		http://www.mouser.com/Search/Produc
	Nichicon	47uf @160V	2	Bias Board		http://www.mouser.com/Search/Produc
	Xicon	47uf @250V	6	Power Supply		http://www.mouser.com/Search/Produc
	Xicon	47uf @350v	2	Power Supply		http://www.mouser.com/Search/Produc
	Nichicon	100uf @50V	1	FET Board		http://www.mouser.com/Search/Produc
	Illinois	200uf @300V	2	Power Supply		http://www.hoffmanamps.com/MyStore
	Nichicon	1000uf@35V	2	Relay Board		http://www.mouser.com/Search/Produc
Potentiometers						
	Alpha	2K (Linear)	1	Presence		http://www.mouser.com/Search/Produc
	Alpha	250K (Linear)	1	Treble		http://www.mouser.com/Search/Produc
	Alpha	250K (Audio)	2	Mid, OD Drive		http://www.tubesandmore.com/
	Alpha	500KA	1	Bass		http://www.mouser.com/Search/Produc
	Alpha	1Ma	3	Cl. Vol, Cl. Master, OD Master		http://www.mouser.com/Search/Produc
	Alpha	10K	1	Bias Trim Pot		http://www.tubesandmore.com/
Trimms						
	CTS Trimmer	10K	1	PI Trimmer		http://www.surplussales.com/Potentiom
Alternative	Piher	10K	1	PI Trimmer		http://www.mouser.com/Search/Produc
	Piher	25K	1	OD Trimmer		http://www.mouser.com/Search/Produc
Switches						
	Mountain	SPST	4	Mid Boost, Bright, OD/PAB Man		http://www.mouser.com/Search/Produc
		DPDT	1	Jazz/Rock		http://www.mouser.com/Search/Produc
	Electroswitch	02-03 Pos /3 Pole	1	Impedance Selector		http://www.mouser.com/Search/Produc
	Carling	SPST ON-Off	2	Power, Standby		http://www.mouser.com/Search/Produc
		SPDT ON-OFF-ON	1	Ground Switch		http://www.mouser.com/Search/Produc

Relays							
Relay	NTE	12VDC DPDT 2A	2	PAB, Channel Select			http://www.mouser.com/Search/Produc
Jacks							
	Switchcraft	L11	2	Pre Out, Ex Spkr			http://www.mouser.com/Search/Produc
		L12A	3	Nor In, PWR Amp In, Spkr			http://www.mouser.com/Search/Produc
	Kobiconn	161-0083E	1	FET Input			http://www.mouser.com/Search/Produc
Alternative	Switchcraft	13E	1	FET Input			http://www.mouser.com/Search/Produc
	Switchcraft	5 PIN MALE PLUG	1	Footswitch connection			http://www.mouser.com/Search/Produc
		5 PIN FEMALE REC	1	Footswitch connection			http://www.mouser.com/Search/Produc
Diodes							
	Vishay	1N4003	1	LED Setup			http://www.mouser.com/Search/Produc
	Fairchild	1N4007	11	PT FWR, 12V FWR, relays & Bias			http://www.mouser.com/Search/Produc
dogears (?) Alternative	ON Semicon	MSR860G	4	PT FWR			http://www.mouser.com/Search/Produc
kleinm Alternative	Fairchild	UF4007	4	PT FWR			http://www.mouser.com/Search/Produc
LED	Lumex	Red LED	1	Power Indicator			http://www.mouser.com/Search/Produc
FET							
Voltage Regulator	Fairchild	12V, 3 Terminal 1A		Relay Supply			http://www.mouser.com/Search/Produc
	NTE 452	JFET AMP/MIX		FET Board			http://www.mouser.com/Search/Produc
Hardware							
Chassis	Vasinguitaramp	ODS 80's	1	Aluminium			http://vasinguitaramp.tripod.com/id4.htr
Rubber Grommets			2	PT & OT Wire Thru Chassis			http://www.mouser.com/Search/Produc
Terminal Strip	Kobiconn		3	Volt Reg, V1&V2			http://www.mouser.com/Search/Produc
Alternative	Keystone		3	Volt Reg, V1&V2			http://www.mouser.com/Search/Produc

[illegible]

[n.asp?pid=18158&pg=45008&id=MOJO763](#)

[n.asp?pid=17722&pg=45008&id=7021810](#)

[n.asp?pid=17726&pg=45008&id=7022800](#)

[ex.jsp?productId=2103732&cp=](#)

[:tDetail.aspx?qs=NLnGgZdA5foBCe3V%2fcsKVg%3d%3d](#)

[:tDetail.aspx?qs=K8TOoIL7NMrpBgrHboseXQ%3d%3d](#)

[:tDetail.aspx?qs=vqrVdwWwvTJji%2fZ97goHLQ%3d%3d](#)

[:tDetail.aspx?qs=s%252byOaUixh6y2iFEzoUXVZA%3d%3d](#)

[:tDetail.aspx?qs=xEpzn%252bMcGQqAj1eYCxqsxA%3d%3d](#)

[:tDetail.aspx?qs=WLQTPHy4z3BeCYIcJbsLtA%3d%3d](#)

[:tDetail.aspx?qs=in9s7fx0B9XxO%2fU%252bZghgDQ%3d%3d](#)

[:tDetail.aspx?qs=VaRu8UXkVQyhZdJNuHSqIw%3d%3d](#)

[:tDetail.aspx?qs=LCMWAU1DZcy3MXcxuAcusQ%3d%3d](#)

[:tDetail.aspx?qs=xRHrB6DKEaK1meuGy71UcA%3d%3d](#)

[:tDetail.aspx?qs=LCMWAU1DZcw2lxBO1Ugq9A%3d%3d](#)

[:tDetail.aspx?qs=LCMWAU1DZcyL2KFBzOnUyA%3d%3d](#)

[:tDetail.aspx?qs=kIP8Go34dYHImTTFOFDDKw%3d%3d](#)

[:tDetail.aspx?qs=%252bgAHI1qJ4gtGsdxCUVLMg%3d%3d](#)

[:tDetail.aspx?qs=LCMWAU1DZcwSkJfVBvV5w%3d%3d](#)

[:tDetail.aspx?qs=WLQTPHy4z3AO4jfGx2krRg%3d%3d](#)

[:tDetail.aspx?qs=kDD%2fdQe9TTeL0DiQunjNPw%3d%3d](#)

[:tDetail.aspx?qs=5LzD%252bzIUEn4OZJooBJPm6w%3d%3d](#)

[:tDetail.aspx?qs=LCMWAU1DZczzS7tP8bLF3Q%3d%3d](#)

[:tDetail.aspx?qs=S9Eyls9TyKZ2QM0KT46QtA%3d%3d](#)

[:tDetail.aspx?qs=LCMWAU1DZcxr6%2fRuivBsPA%3d%3d](#)

[:tDetail.aspx?qs=NKM9giYt8ulf8iuCYDLG2w%3d%3d](#)

[:tDetail.aspx?qs=LCMWAU1DZcy3lFMYz6cgVw%3d%3d](#)

[:tDetail.aspx?qs=apXE4A1i8JGajhs3w7xv5Q%3d%3d](#)

[:tDetail.aspx?qs=LCMWAU1DZcxYAYoyuKOFCA%3d%3d](#)

[:tDetail.aspx?qs=x8VB%2fMCLOEF1uBcuNPm6yw%3d%3d](#)

[:tDetail.aspx?qs=c5EpgPO2bwRprlqs2F56eQ%3d%3d](#)

[:tDetail.aspx?qs=%2fat9yl4ffJAWax76yVcdrQ%3d%3d](#)

[:tDetail.aspx?qs=ZF4xuj%252bclxjnD3uFV2qpDw%3d%3d](#)

[:tDetail.aspx?qs=nGnjGAC%252b%252bLno8kG6UWHKmA%3d%3d](#)

[:tDetail.aspx?qs=AgiByKCM3cA8oo7VoF1b7Q%3d%3d](#)

[:tDetail.aspx?qs=FJlIEcUz37NXnC89xKb5qg%3d%3d](#)

[:tDetail.aspx?qs=R4%2fAj8xQbdV%252bCmK8kFay6Q%3d%3d](#)

[:tDetail.aspx?qs=kdXDfQWUdfeqZx5%252bz%252b5Lzw%3d%3d](#)

[:tDetail.aspx?qs=LCMWAU1DZczlzu2osATsA%3d%3d](#)

[:tDetail.aspx?qs=6xVWXLtMAeYQGdoPIGGSZw%3d%3d](#)

[:tDetail.aspx?qs=gbYW5EK8XV4yliZrkRbDcw%3d%3d](#)

[:tDetail.aspx?qs=wudQYZJ8QTq9Tv7zFxbrPA%3d%3d](#)

[:tDetail.aspx?qs=OLlIfhLCSeIzIFZuJjMA%3d%3d](#)

[:tDetail.aspx?qs=GUzdjE0gwjaZmmIMkFuUA%3d%3d](#)

[:tDetail.aspx?qs=cLmlWZKDivpQfpAzBUExsw%3d%3d](#)

[:tDetail.aspx?qs=OLlIfhLCRshv1IQk9q8A%3d%3d](#)

[:tDetail.aspx?qs=XeJOwCSCkv9EY6y3Wzik2g%3d%3d](#)

[:tDetail.aspx?qs=SY6bF4iPirTWmoZUPozwbQ%3d%3d](#)

[:tDetail.aspx?qs=SY6bF4iPirQ634efhFU9dQ%3d%3d](#)

[:tDetail.aspx?qs=FAS%2frBDbYd6X1Rz3H%252bTNtg%3d%3d](#)

[:tDetail.aspx?qs=c3IXeSpEXIfgWvG006JK%2fw%3d%3d](#)

[:tDetail.aspx?qs=D9UH1cmVzpH1KYuHQs8KrQ%3d%3d](#)

[:tDetail.aspx?qs=bUNbm06vVrHw4GQ69JZzRA%3d%3d](#)

[:tDetail.aspx?qs=LhO1TGZFO75R2CfmApHxYg%3d%3d](#)

[:tDetail.aspx?qs=G1TAZZK1RglWE0LSo9B5yA%3d%3d](#)

[:tDetail.aspx?qs=LqTTsppFM3pH3tifhOPEvQ%3d%3d](#)

[:tDetail.aspx?qs=N2XN0KY4UWUFBD5gm88wKg%3d%3d](#)

[:tDetail.aspx?qs=0wUbEfgefQ%2f7lebaXt65GQ%3d%3d](#)

[:tDetail.aspx?qs=10wcEixSur3OMv6Q%2fzPiqA%3d%3d](#)

[:tDetail.aspx?qs=m3yEn%2fjtVGD8l5Jrp5VPXA%3d%3d](#)

[:tDetail.aspx?qs=BfJJAZ7xCr08BhgVa8n4Fw%3d%3d](#)

[/perlshop.cgi?ACTION=thispage&thispage=parts4.htm&ORDER_ID=142914427](#)

[:tDetail.aspx?qs=kSQuaOR2jdRJZKxREXw2xg%3d%3d](#)

[:tDetail.aspx?qs=Js9a%252bqrG%2fZJthnU4Lvhb%252bg%3d%3d](#)

[:tDetail.aspx?qs=d52tNERy2vvMEDFQ0TVYLw%3d%3d](#)

[:tDetail.aspx?qs=cPQZQsbZfyIVEKKUuoX3hw%3d%3d](#)

[:tDetail.aspx?qs=PJNpYLpS5JGGm61mc3CRzg%3d%3d](#)

[eters/PCM-SingleTurn/PCM-SingleTurn-2.html](#)

[:tDetail.aspx?qs=Ebq70JpICae%252bT4tcAfzOwg%3d%3d](#)

[:tDetail.aspx?qs=PZ1ub9NEDaUrbqd14tbnkQ%3d%3d](#)

[:tDetail.aspx?qs=e8V%2fxjLdzRQvU50WuBvd1A%3d%3d](#)

[:tDetail.aspx?qs=uX%252bFGyaFdpiM2SMNcM%2f2Vw%3d%3d](#)

[:tDetail.aspx?qs=vmaJ%252bUOuvax%2f%252bHl1qkReQA%3d%3d](#)

[:tDetail.aspx?qs=nCir7VBz9Cj1xbxtDtbojg%3d%3d](#)

[:tDetail.aspx?R=2FC53-73virtualkey69100000virtualkey691-2FC53-73](#)

[:tDetail.aspx?qs=e2FdSZXTP2ZSMFLmZpXHow%3d%3d](#)

[:tDetail.aspx?qs=l3kMT7EEIOXE5v11KxYudw%3d%3d](#)

[:tDetail.aspx?qs=MI16PYk8XEQt1uSynbXYYA%3d%3d](#)

[:tDetail.aspx?qs=nwl1c6EqtTfiHs4ZcjuaHg%3d%3d](#)

[:tDetail.aspx?qs=r3IEBt6%2fMebvLoHcCxo8kA%3d%3d](#)

[:tDetail.aspx?qs=iwvYsH9bSFYKUpauTH0hkA%3d%3d](#)

[:tDetail.aspx?qs=iwvYsH9bSFZOHHKcFE8aXQ%3d%3d](#)

[:tDetail.aspx?qs=N4vtoAxH%2fSqhgHxdHdUCwg%3d%3d](#)

[:tDetail.aspx?qs=ZbYWOjW8mGpDHeErRxax7Q%3d%3d](#)

[:tDetail.aspx?qs=ZpPixqFcBtw2ylq8AD91wg%3d%3d](#)

[:tDetail.aspx?qs=Nwlfa72FlpIAHiXupLMBA%3d%3d](#)

[:tDetail.aspx?qs=G9T%2fR3T%252b8yv1Rj21zqvRRA%3d%3d](#)

[:tDetail.aspx?qs=VOMQJJE%252bBNkfAU1Xmn60XA%3d%3d](#)

[:tDetail.aspx?qs=JV7IzIMm3ylehcTJaaD%252baw%3d%3d](#)

[nl](#)

[:tDetail.aspx?qs=q8LsLKwgTA7CIXKIHy1fHw%3d%3d](#)

[:tDetail.aspx?qs=YQdJuhbLKuTRv54E14QWRQ%3d%3d](#)

[:tDetail.aspx?qs=1rIBfDhV7idjHitTMn556A%3d%3d](#)

[:tDetail.aspx?qz=zfxUrXoPZmq9oDWDhbAHQ%3d%3d](#)