

JSI PROGUE (REV-A) - BOM (2021-01-04)

Value	RefDes	Qty	Name	Manufacturer
10	R156, R182, R198	3	RES_0603	RC0603FR-0710RL
100	R6, R67, R68, R83, R100, R125, R134, R135, R143, R170, R173	11	RES_0603	RC0603FR-07100RL
220	R4, R84, R96, R98, R104, R196, R199, R201	8	RES_0603	RC0603FR-07220RL
470	R148	1	RES_0603	RC0603FR-07470RL
1k	R24, R36, R41, R53, R66, R70, R72, R74, R75, R80, R86, R88, R89, R94, R108, R126, R136, R144, R158, R183, R184, R200, R204, R205, R210	25	RES_0603	RC0603FR-071KL
2k	R44, R57, R203	3	RES_0603	RC0603FR-072KL
2k4	R49, R63	2	RES_0603	RC0603FR-072K4L
3k3	R106, R175, R211, R212	4	RES_0603	RC0603FR-073K3L
3k6	R147	1	RES_0603	RC0603FR-073K6L
4k3	R127, R129, R142, R153	4	RES_0603	RC0603FR-074K3L
4k75	R20, R31, R159	3	RES_0603	RC0603FR-074K75L
4k99	R10, R17, R150	3	RES_0603	RC0603FR-074K99L
5k1	R43, R56, R93	3	RES_0603	RC0603FR-075K1L
6k8	R163	1	RES_0603	RC0603FR-076K8L
8k2	R73, R76, R162	3	RES_0603	RC0603FR-078K2L
9k1	R115, R137	2	RES_0603	RC0603FR-079K1L
10k	R2, R5, R35, R38, R42, R45, R46, R48, R54, R55, R58, R61, R65, R69, R91, R99, R107, R109, R110, R112, R124, R131, R133, R140, R141, R146, R152, R161, R176, R177, R178, R179, R180, R181, R185, R186, R189, R190, R191, R194, R202, R207, R209, R213, R214, R215	46	RES_0603	RC0603FR-0710KL
16k	R116	1	RES_0603	RC0603FR-0716KL
18k	R28, R121	2	RES_0603	RC0603FR-0718KL
20k	R114, R167, R168, R169, R171, R172, R174	7	RES_0603	RC0603FR-0720KL

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22k	R40, R52, R64, R92, R97	5	RES_0603	RC0603FR-0722KL
36k	R19	1	RES_0603	RC0603FR-0736KL
39k	R23	1	RES_0603	RC0603FR-0739KL
45k3	R21	1	RES_0603	RC0603FR-0745K3L
47k	R26, R101, R119, R123	4	RES_0603	RC0603FR-0747KL
51k	R34, R81, R82, R113	4	RES_0603	RC0603FR-0751KL
56k	R90, R130, R145	3	RES_0603	RC0603FR-0756KL
90k9	R1	1	RES_0603	RC0603FR-0790K9L
93k1	R206, R208	2	RES_0603	RC0603FR-0793K1L
100k	R3, R37, R39, R50, R51, R59, R77, R79, R85, R95, R102, R105, R111, R117, R118, R122, R128, R132, R138, R139, R157, R160	22	RES_0603	RC0603FR-07100KL
110k	R25	1	RES_0603	RC0603FR-07110KL
120k	R18, R29	2	RES_0603	RC0603FR-07120KL
150k	R30	1	RES_0603	RC0603FR-07150KL
220k	R151, R154, R155	3	RES_0603	RC0603FR-07220KL
300k	R9, R11, R60, R103	4	RES_0603	RC0603FR-07300KL
536k	R14	1	RES_0603	RC0603FR-07536KL
620k	R13, R120	2	RES_0603	RC0603FR-07620KL
820k	R33	1	RES_0603	RC0603FR-07820KL
1M	R7, R71, R78, R87	4	RES_0603	RC0603FR-071ML
2M	R15, R27	2	RES_0603	RC0603FR-072ML
5M1	R8, R47, R62, R149	4	RES_0603	RC0603FR-075M1L
100PTC	R22, R32	2	RES_0603	ERA-V33J101V
10.0k(0.1%)	R12, R16, R188, R192, R197	5	RES_0603	ERJ-PB3B1002V
15.0k(0.1%)	R193	1	RES_0603	ERJ-PB3B1502V
39.0k(0.1%)	R187, R195	2	RES_0603	ERJ-PB3B3902V
220	R166	1	RES	MFR-25FBF52-220R
1k5	R165	1	RES	MFR-25FBF52-1K5
4k7	R164	1	RES	MFR-25FBF52-4K7
100k	R216	1	RES	MFR-25FBF52-100K

JSI PROGUE (REV-A) - BOM (2021-01-04)

Value	RefDes	Qty	Name	Manufacturer
30p	C65, C67	2	CAP_0603	C0603C300J5GACTU
100p	C5, C9, C15, C25, C32	5	CAP_0603	CC0603JRNPO9BN101
470p	C12	1	CAP_0603	C0603C471J5GACTU
100n	C2, C3, C4, C6, C7, C10, C11, C16, C18, C21, C24, C27, C36, C41, C45, C57, C58, C59, C60, C61, C63, C68, C88, C91, C92, C100, C101, C102, C103, C104, C105	31	CAP_0603	06033C104KAT4A
220n	C62	1	CAP_0603	CC0603KRX7R7BB224
1n	C50	1	CAP_0805	C0805C102J5GAC
10n	C8, C13, C14, C17, C40, C42, C48, C70, C80, C85, C89	11	CAP_0805	0805N103J500CT
27n	C20, C22, C26, C30	4	CAP_0805	C0805C273J3GACTU
33n	C38	1	CAP_0805	C0805C333K5RACTU
120n	C39	1	CAP_0805	CC0805KRX7R9BB124
100n	C19, C23, C43	3	CAP_1206	C3216C0G1H104J160AA
1u	C1, C28, C35, C37, C53, C56, C66, C69, C73, C74, C82, C83, C87, C90, C93, C95A, C95B	17	CAP_1206	CL31B105KBHNFNE
6u8	C46, C47, C64, C71, C75, C84, C86, C45A, C45B	9	CAP_1206	C3216X7R1E685K160AB
10u	C44, C49, C76, C77, C78, C79	6	CAP_1210	CL32B106KAJNNNE
220n	C29, C33	2	CAP200	R82DC3220AA60J
1u	C94	1	CAP200	FG28X5R1H105KRT00
1u	C51, C54	2	CAP200	R82DC4100AA60J
100u	C72, C81	2	POLCAP	EEU-EB1E101S
330u	C52, C55	2	POLCAP	EEU-FS1A331B
47u	C31	1	POLCAP	EEU-FR1E470H
220u	C34	1	POLCAP	EEU-FR1C221
MMSD4148T1G	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D13	11	1N4148	MMSD4148T1G
APT1608SGC	D11, D12, D14, D15, D21, D23, D24, D25, D26	9	LED	APT1608SGC
1N4004	D18, D19, D20	3	DIODE	S1AB-13-F
LED3MM	D16, D22	2	LED	WP710A10SYD
DB107S	D17	1	DB107S	DB107S

JSI PROGUE (REV-A) - BOM (2021-01-04)

Value	RefDes	Qty	Name	Manufacturer
MMBT3904	Q1, Q3, Q16, Q19	4	MMBT3904LT1G	MMBT3904LT1G
MMBT3906	Q2, Q4, Q5, Q11, Q13, Q15, Q17, Q18	8	MMBT3906LT1G	MMBT3906LT1G
PMP4201Y,115	Q6, Q7, Q8, Q9, Q10	5	PMP4201Y,115	PMP4201Y,115
MMBF5457	Q12, Q14	2	MMBF5457	MMBF5457
330	L1, L3, L4, L5	4	IND_0603	BLM18PG331SN1D
ASPI-4030S-8R2M-T	L2	1	IND_ASPI4030	ASPI-4030S-8R2M-T
8.0MHZ	Y1	1	7A-8.000MAAJ-T	7A-8.000MAAJ-T
TLV9302IDR	U1, U2, U4	3	TLV9302IDR	TLV9302IDR
LM393D	U5, U7	2	LM393D	LM393ADT
LF351D	U6, U9	2	LF351D	LF351D
RC4558D	U8, U12, U13, U14, U15, U17, U19	7	RC4558D	RC4558D
LM13700MX	U10	1	LM13700MX	LM13700MX
LF353D	U11	1	LF353D	LF353D
CD4007UBM	U18, U21	2	CD4007UBM	CD4007UBM
TS556IDTTR	U20	1	TS556IDTTR	TS556IDTTR
TPA152	U22	1	TPA152	TPA152
STM32F103CBT6	U23	1	STM32F103CBT6	STM32F103CBT6
DAC8562SDGSR	U24	1	DAC8562SDGSR	DAC8562SDGSR
SN74HCT14DR	U25, U27	2	SN74HCT14DR	SN74HCT14DR
OPA2990IDR	U26	1	OPA2990IDR	OPA2990IDR
TPS7A4901DGNR	U28	1	TPS7A4901DGNR	TPS7A4901DGNR
TMR 3-1223E	U29	1	TMR 3-1223E	TMR 3-1223E
TPS7A3001DGNR	U30	1	TPS7A3001DGNR	TPS7A3001DGNR
L7805CV	U31	1	L7805CV	L7805CV
UA78M33	U32	1	UA78M33	UA78M33
78L05	U33	1	UA78L05ACPK	UA78L05ACPK
AS3046	U3	1	AS3046	alfarzpp.lv
NOISE1B	U16	1	NOISE1B	electricdruid.net
6N137SM	VO1	1	6N137SM	6N137SM

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Value	RefDes	Qty	Name	Manufacturer
500	VR3, VR5	2	3214X-1-501E	3214X-1-501E
1k	VR9	1	RES_MAX	3314G-1-102E
10k	VR2, VR4, VR6, VR7, VR8	5	3214X-1-103E	3214X-1-103E
100k	VR1	1	OCTAVE	3214X-1-104E
B10k	RV1, RV2, RV3, RV4, RV6, RV10, RV13, RV15, RV16, RV17, RV20, RV22	12	ALPHA 9MM	
A10k	RV14, RV21	2	ALPHA 9MM	
C50k	RV8	1	ALPHA 9MM	
B100k	RV7, RV24	2	ALPHA 9MM	
A1M	RV9, RV11, RV12, RV18, RV19	5	ALPHA 9MM	
C1M	RV5, RV23	2	ALPHA 9MM	
SWD	J16	1	HDRF-1x6	to STM32 Programmer
DIP_SWITCH	J13	1	HDRF-2x8	DS03-254-08BE
IDC2X17M	J6 (2x)	2	IDC2X17M	TST-117-01-L-D
MIDI	J7, J10	2	57PC5F	57PC5F
JACKS (6,3mm)	J3, J5, J8, J9, J11, J12	6	NRJ6HF	NRJ6HF
JACK NUTS	J3, J5, J8, J9, J11, J12	6	NRJ-NUT-B	NRJ-NUT-B
9-18VDC_IN	J4	1	722RA	722RA
MHS233K	S1-S10	10	MHS233K	MHS233K
PWR	S11	1	PB400	PB400EEQR1BLK
FDH333	CR1, CR2	2	FDH333	(*1)
HDR-1x3	J1	1	PBEND-B10K	(*2)
HDR-1x2	J2	1	S-TRIG	(*3)
MCU-Boot0	J14	1	HDRF-1x2	(*4)
DEBUG TX	J15	1	HDRF-1x2	(*5)
DC (optional)	J17A, J17B	2	HDRF-2x2	(*6)
DC (optional)	J18	2	HDRF-1x2	(*7)
Fuse	F1	1	Fuse 800mA	MRT800-bulk-short
Fuse holder	F1 (optional)	1	Fuse Holder	56200001009

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Value	RefDes	Qty	Name	Manufacturer
MISCELLANEOUS:				
Enclosure	Hammond Enclosure	1	1441-16BK3	1441-16BK3
Screws	M4 8MM screw	4		eBay, etc.
Ribbon Cable	Ribbon Cable FM-FM 150mm 34pin (17+17)	1	Ribbon Cable	HCSD-17-D-08.00-01-N
IC socket	IC socket 8-pin DIP	1		ebay, etc.
Knobs	Knobs	24	45KN018-GRX	45KN018-GRX
ST-LINK V2	ST-LINK V2 (programmer with 6 FM-FM jumpers)	1	ST-LINK/V2	ST-LINK/V2
Power Adapter	12VDC (0,35A) Power Adapter (2,1mm)	1		eBay, etc.
FOR PREPARING THE HAMMOND ENCLOSURE:				
M4 Thread Steel Tap Threading Tool				eBay, etc.
Hand Drill				eBay, etc.
Various Size Metal Drill Bits				eBay, etc.
Automatic Center Punch tool				eBay, etc.
REMARKS:				
(*1) - Diode s for analog pitch wheel, not needed!				
(*2) - Connector for the analog pitch bend (B10k), not needed!				
(*3) - Connector for optional S-trig, not needed! (Short pads to trigger the envelopes)				
(*4) - Do NOT populate!				
(*5) - Do NOT populate!				
(*6) - Do NOT populate! (Can be used to cut the DC from the Ribbon cable)				
(*7) - Do NOT populate! (Can be used to short DC jack sleeve to GND)				
UPDATE LOG:				
Original BOM created: 2021-01-04				