

Preparation

71-4050

Voltage Charts

LOGIC UNIT

REF.	DESCRIPTION	MODE	GATE	DRAIN	SOURCE
Q2	2SK209	SQ OPEN	3.5V	3.0V	3.0V
		SQ TIGHT	0V	3.0V	0.5V
Q3	2SK209	SQ OPEN	3.5V	3.0V	3.0V
		SQ TIGHT	0V	3.0V	0.5V
Q4	2SK209	BASE	0V	2.5V	0.5V
		REPEAT	3.0V	2.5V	2.5V
Q5	2SK2731	BASE	0V	0V	0V
		REPET	0V	3.7V	0V

REF.	DESCRIPTION	MODE	1	2	3	4	5
IC10	TA75S01F	RX	0V	0V	0.5V	0V	4.9V
		TX	1.0V	0V	0.5V	3.7V	4.9V
IC11	BU4S81	BASE	4.9V	4.9V	0V	4.9V	5.0V
		REPEAT	0V	0V	0V	0V	5.0V
IC12	BU4S01	BASE	4.9V	4.9V	0V	4.9V	5.0V
		REPET	0V	0V	0V	4.8V	5.0V
IC15	BU4S81	SQ OPEN	4.9V	4.9V	0V	4.9V	5.0V
		SQ TIGHT	0V	0V	0V	0V	5.0V

REF.	DESCRIPTION	MODE	1	2	3	4
IC14A	TS272CD		3.0V	3.0V	3.0V	0V

REF.	DESCRIPTION	MODE	5	6	7	8
IC14B	TS272CD	SQ OPEN	1.1V	1.1V	1.1V	12.0V
		SQ TIGHT	0V	0V	0V	12.0V

REF.	DESCRIPTION	MODE	1	2	3	4	5	6	7	8
IC16	NJM2073		5.8V	12.0V	5.8V	0V	0.5V	0V	0V	0.5V

Voltage Charts (continued)

FRONT UNIT

REF.	DESCRIPTION	MODE	BASE	EMITTER	COLLECTOR
Q410	2SA1431		6.9V	6.3V	12.0V

REF.	DESCRIPTION	MODE	1	2	3	4	5
IC401	TA75S558F		2.9V	0V	2.9V	2.9V	5.0V
IC404	LA4425A		1.4V	0V	0V	5.8V	12.5V

REF.	DESCRIPTION	MODE	1	2	3	4	5	6	7	8
IC406	NJU7662M		5.3V	6.1V	0V	□6.0V	□12.0V	5.2V	7.9V	12.1V

PA UNIT

REF.	DESCRIPTION	MODE	BASE	EMITTER	COLLECTOR
Q502	DTC124EKA	TX OFF	0V	0V	12.7V
		TX ON	2.2V	0V	0V
Q503	DTB143EK	TX OFF	13.0V	13.1V	0V
		TX ON	8.1V	12.8V	12.8V
Q504	2SC2412K	POWER 50W	1.4V	0.8V	1.3V
		POWER MAX	1.7V	1.1V	1.2V
Q505	2SB1018A	POWER 50W	12.2V	12.9V	9.2V
		POWER MAX	12.0V	12.8V	12.5V

REF.	DESCRIPTION	MODE	GATE	DRAIN	SOURCE
Q507	2SK2731	TX OFF	3.5V	0V	0V
		TX ON	0V	12.8V	0V

REF.	DESCRIPTION	MODE	1	2	3	4	5	6	7	8
IC501	BAM4558F	POWER 50W	1.4V	2.0V	1.8V	0V	2.4V	3.2V	1.4V	7.2V
		POWER MAX	1.4V	2.0V	2.0V	0V	2.4V	3.5V	1.4V	7.2V
		ANT OPEN	4.4V	2.1V	2.1V	0V	3.9V	3.1V	5.1V	7.2V

REF.	DESCRIPTION	MODE	1	2	3	4	5
IC502	TA75S01F	POWER 50W	3.1V	0V	3.1V	1.8V	7.2V
		POWER MAX	3.5V	0V	3.5V	3.1V	7.2V
		ANT OPEN	3.1V	0V	3.1V	1.3V	7.2V

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Voltage Charts (continued)

RX UNIT

REF.	DESCRIPTION	MODE	BASE	EMITTER	COLLECTOR
Q104	DTB143EK	RX	3.8V	7.2V	7.1V
		TX	0V	0V	0V
Q113	2SC4250		2.3V	1.5V	4.3V
Q114	DTC314TK	WIDE	0V	0V	7.1V
		NARROW	5.0V	0V	0V
Q117	DTA144EUA	RX	7.2V	7.3V	3.6V
		TX	0V	7.3V	7.3V
Q118	DTB143EK	RX	3.3V	7.3V	7.2V
		TX	7.3V	7.3V	0V
Q119	DTC114EKA	RX	3.9V	0V	0V
		TX	0V	0V	7.3V

REF.	DESCRIPTION	MODE	GATE	DRAIN	SOURCE
Q103	2SK508		0V	1.2V	6.3V
Q115	2SK209	WIDE	7.0V	6.7V	6.7V
		NARROW	0V	6.7V	0.6V
Q116	2SK209	WIDE	7.0V	7.2V	7.2V
		NARROW	0V	7.2V	7.2V
Q120	2SK3018	RX	0V	3.9V	0V
		TX	3.3V	0V	0V

REF.	DESCRIPTION	MODE	1	2	3	4	5	6	7	8
IC102	NJU7662M		6.0V	10.9V	7.2V	3.6V	0V	5.9V	10.6V	14.5V

REF.	DESCRIPTION	MODE	1	2	3	4	5	6	7	8	9	10
IC106	TK10487M		7.2V	6.4V	0V	6.7V	7.1V	6.2V	6.2V	6.2V	7.0V	7.1V
			11	12	13	14	15	16	17	18	19	20
			2.9V	3.0V	1.3V	1.3V	1.6V	0V	4.9V	0V	0V	1.8V

RX VCO UNIT

REF.	DESCRIPTION	MODE	BASE	EMITTER	COLLECTOR
Q302	2SC4325	RX	2.4V	1.6V	5.3V
		TX	2.4V	1.6V	5.3V
Q303	2SC3583	RX	1.8V	1.2V	6.7V
		TX	0V	0V	7.3V
Q304	DTA124EKA	RX	2.1V	4.9V	4.8V
		TX	2.1V	4.9V	4.8V
Q305	2SD2351	RX	5.5V	4.9V	7.2V
		TX	5.5V	4.9V	7.2V
Q306	DTA124EKA	RX	2.0V	7.2V	7.1V
		TX	7.3V	7.3V	0V

REF.	DESCRIPTION	MODE	GATE	DRAIN	SOURCE
Q301	2SK508	RX	0V	4.7V	1.5V
		TX	0V	4.7V	1.5V

REF.	DESCRIPTION	MODE	1	2	3	4
IC301	μPD1688		3.1V	0V	0.8V	4.8V

Voltage Charts (continued)

TX UNIT

REF.	DESCRIPTION	MODE	BASE	EMITTER	COLLECTOR
Q212	2SB1184	TX	11.4V	12.1V	7.2V
Q215	2SC3357	TX	0.6V	0.3V	6.2V

REF.	DESCRIPTION	MODE	1	2	3	4	5	6	7	8
IC203	TS272CD		2.5V	2.5V	2.5V	0V	2.5V	2.5V	2.5V	7.3V
IC206	NJU7662M		6.1V	11.0V	7.3V	3.7V	0V	6.0V	10.7V	14.6V
IC209	NJM2904	TX	6.1V	6.1V	7.2V	0V	1.9V	2.4V	0.5V	7.3V
		TX UNLOCK	0V	0V	0V	0V	4.5V	2.4V	5.8V	7.3V

REF.	DESCRIPTION	MODE	1	2	3	4	5
IC204	TA75S01F		2.5V	0V	2.5V	2.5V	7.3V

TX VCO UNIT

REF.	DESCRIPTION	MODE	BASE	EMITTER	COLLECTOR
Q302	2SC4325	RX	0V	0V	7.4V
		TX	2.4V	1.6V	5.3V
Q303	2SC3583	RX	0V	0V	7.3V
		TX	2.0V	1.6V	6.8V
Q304	DTA124EKA	RX	5.0V	5.0V	0V
		TX	2.4V	4.9V	4.9V
Q305	2SD2351	RX	5.0V	5.5V	7.3V
		TX	4.9V	5.5V	7.3V
Q306	DTA124EKA	RX	7.3V	7.3V	0V
		TX	2.1V	7.3V	7.2V

REF.	DESCRIPTION	MODE	GATE	DRAIN	SOURCE
Q301	2SK508	RX	0V	0V	0V
		TX	0V	4.9V	1.7V

REF.	DESCRIPTION	MODE	1	2	3	4
IC301	μPD1688		3.2V	0V	0.9V	4.8V