

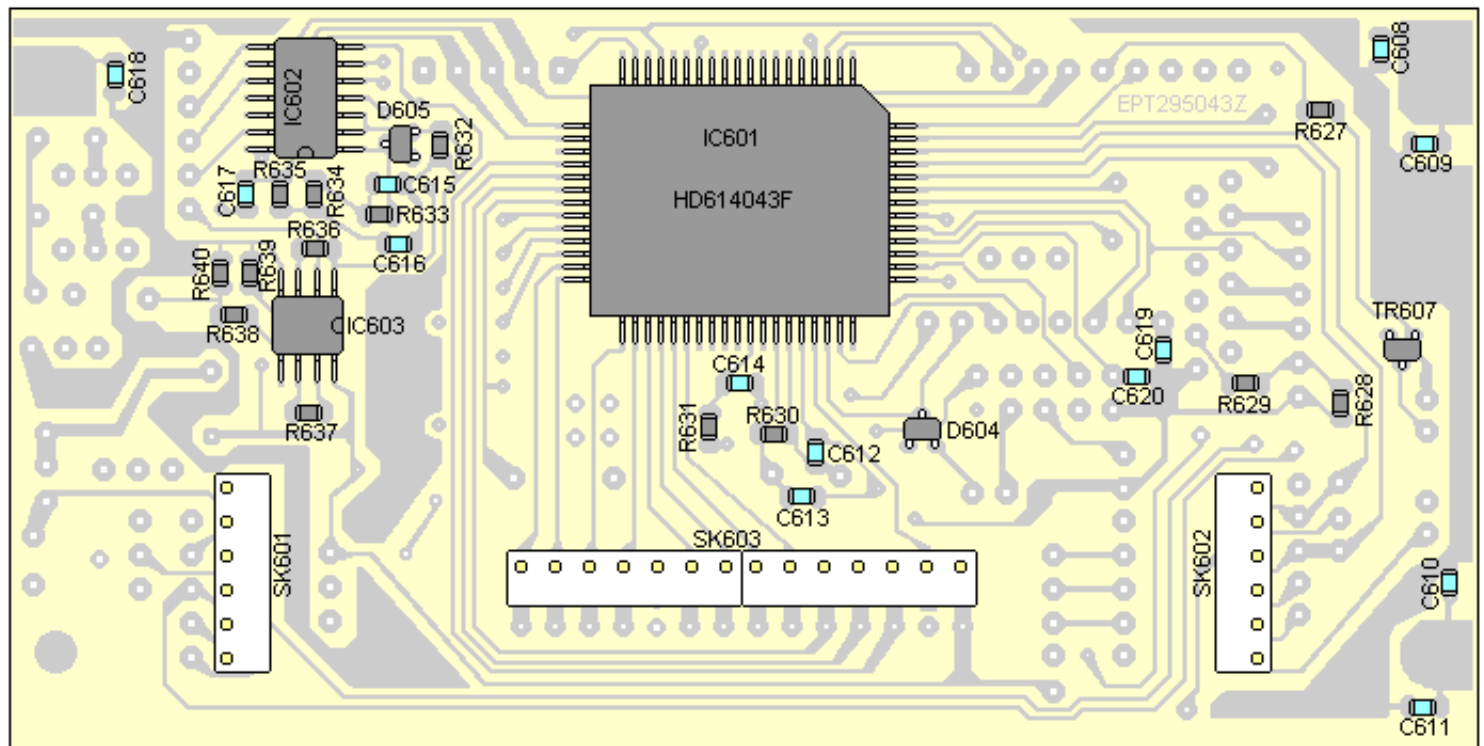
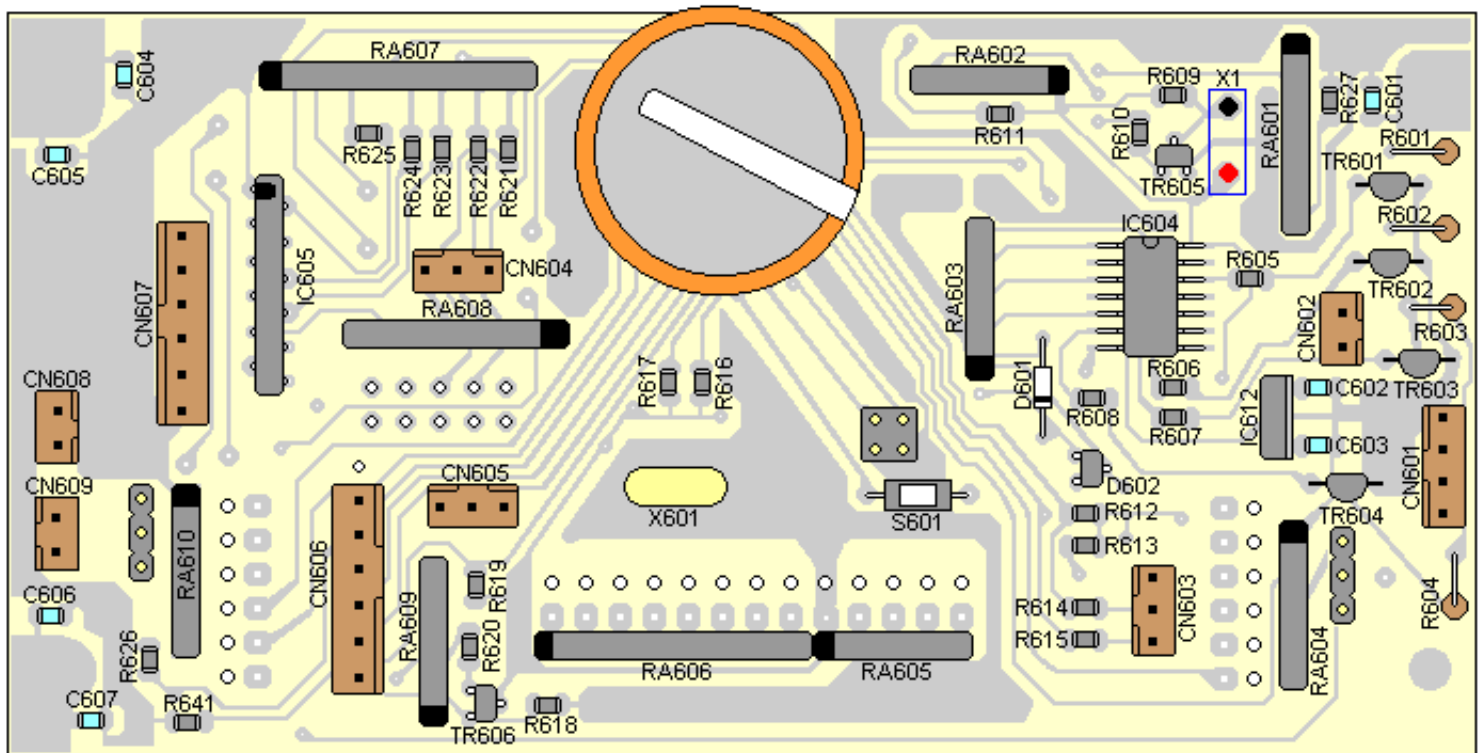
Ranger RCI-2970

Documentation Project

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CPU PCB EPT295043Z

[Trace Layout](#)



Ranger RCI-2970 CPU PCB EPT295043Z

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Resistor Array

Ref#	Description	MFR. Part No.
RA601	RESISTOR ARRAY, 10K/20K 6P	RCS0670023
RA602	RESISTOR ARRAY, 47K 5P	RCS0570009
RA603	RESISTOR ARRAY, 47K 5P	RCS0570009
RA604	RESISTOR ARRAY, 220K 5P	RCS0570022
RA605	RESISTOR ARRAY, 47K 5P	RCS0570009
RA606	RESISTOR ARRAY, 220K 9P	RCS0970021
RA607	RESISTOR ARRAY, 47K 9P	RCS0970015
RA608	RESISTOR ARRAY, 47K 7P	RCS0770020
RA609	RESISTOR ARRAY, 47K 5P	RCS0570009
RA610	RESISTOR ARRAY, 220K 5P	RCS0570022
RA611	RESISTOR ARRAY, 47K 5P	RCS0570009

Resistors

Ref#	Description	MFR. Part No.
R601	270ohm 1/4W (U) TYPE, CARBON	RCU142714Z
R602	220ohm 1/4W (U) TYPE, CARBON	RCU142214Z
R603	180ohm 1/4W (U) TYPE, CARBON	RCU141814Z
R604	82ohm 1/4W (U) TYPE, CARBON	RCU148204Z
R605	470ohm .1 W CHIP	RCY014714Z
R606	470ohm .1W CHIP	RCY014714Z
R607	470ohm .1W CHIP	RCY014714Z
R608	470ohm .1 W CHIP	RCY014714Z
R609	10ohm .1 W, CHIP	RCY011034Z
R610	1ohm .1 W CHIP	RCY011024Z
R611	47K, 0.1W CHIP	RCY014734Z
R612	47K, 0AW CHIP	RCY014734Z
R613	47K, 0.1W CHIP	RCY014734Z
R614	47K, 0.1 W CHIP	RCY014734Z
R615	47K, 0.1W CHIP	RCY014734Z
R617	47K, 0.1W CHIP	RCY014734Z
R618	47K, 0.1 W CHIP	RCY014734Z
R619	47K,.0.1W CHIP	RCY014734Z
R620	470ohm .1W CHIP	RCY014714Z
R621	47K 0.1W CHIP	RCY014734Z
R622	47K 0.1 W CHIP	RCY014734Z
R623	47K 0.1W CHIP	RCY014734Z
R624	47K 0.1 W CHIP	RCY014734Z
R625	47K 0.1W CHIP	RCY014734Z
R626	4.7K 0.1 W CHIP	RCY014724Z
R627	47K 0.1W CHIP	RCY014734Z
R628	47K 0.1 W CHIP	RCY014734Z
R629	47K 0.1W. CHIP	RCY014734Z
R630	RESISTOR, 1MEG, 0.1 W, CHIP	RCY011054Z
R631	10ohm .1 W CHIP	RCY011034Z
R632	47K 0.1 W CHIP	RCY014734Z
R633	39K 0.1 W CHIP	RCY013934Z
R634	RESISTOR, 220K 0.1 W CHIP	RCY012244Z
R635	RESISTOR, 1MEG 0.1W CHIP	RCY011054Z

R636	RESISTOR, 100K 0.1W CHIP	RCY011044Z
R637	RESISTOR, 220K 0.1W CHIP	RCY012244Z
R638	RESISTOR, 100K 0.1W CHIP	RCY011044Z
R639	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R640	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R641	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R642	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R643	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R644	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R645	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R646	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R647	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R648	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R649	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R650	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R651	RESISTOR, 47K 0.1W CHIP	RCY014734Z
R652	RESISTOR, 47 K 0.1W CHIP	RCY014734Z
R653	RESISTOR, 47 K 0.1W CHIP	RCY014734Z
R654	RESISTOR, 47 K 0.1W CHIP	RCY014734Z
R655	RESISTOR, 47 K 0.1W CHIP	RCY014734Z
R656	RESISTOR, 47 K 0.1W CHIP	RCY014734Z
R657	RESISTOR, 47 K 0.1W CHIP	RCY014734Z
R658	RESISTOR, 47 K 0.1W CHIP	RCY014734Z
R659	RESISTOR, 47 K 0.1W CHIP	RCY014734Z
R660	RESISTOR, 47 K 0.1W CHIP	RCY014734Z
R661	RESISTOR, 47 K 0.1W CHIP	RCY014734Z
8662	RESISTOR, 47 K 0.1W CHIP	RCY014734Z

Capacitors

Ref#	Description	MFR. Part No.
C601	.01uF 50WV K Z5U, MONO.	CK1103AB7U
C602	.1uF 35WV M, TANTALUM	CTY351046Z
C603	.33uF 35WV M, TANTALUM	CTY353346Z
C604	.01uF 50WV KZ5U, MONO.	CK1103A87U
C605	.01uF 50WV KZ5U, MONO.	CK1103AB7U
C606	.01uF 50WV K Z5U, MONO.	CK1103AB7U
C607	.01uF 50WV K Z5 U, MONO.	CK1103AB7U
C608	.01uF 50WV KZ5U, MONO.	CK1103AB7U
C609	.01uF 50WV K Z5 U, MONO.	CK1103AB7U
C610	.01uF 50WV K Z5U, MONO.	CK1103A87U
C611	.01uF 50WV K Z5 U, MONI0.	CK1103A87U
C612	33PF 50WV J CH, MONO CHIP	CK1330AB4A
C613	33PF 50WV J CH, MONO CHIP	CK1330AB4A
C614	.1uF 50WV Z Y5V, MONO.	CK2104AB7V
C615	.0027uF 50WV Z Y5V, MONO.	CK1272AB5R
C616	470PF 50WV K SL, MONO. CHIP	CK1471AB5L
C617	100PF 50WV K SL, MONO CHIP	CK1101AB5L
C618	.01uF 50WV K Z5U, MONO.	CK1103AB7U

Integrated Circuits

Ref#	Description	MFR. Part No.
IC601	IC HD4074008F	ENH174008F
IC602	IC TC4069UBF	ENTA04069F
IC603	IC M5223FP	ENMI05223F
IC604	IC TC4069UBF	ENTA04069F
IC605	IC TA78	TZTA00078Z
IC606	IC TA78	TZTA00078Z
IC612	IC 7805	ENSS07805Z

Transistors

Ref#	Description	MFR. Part No.
TR601	TRANSISTOR 2SC945P	T2SC00945P
TR602	TRANSISTOR 2SC945P	T2SC00945P
TR603	TRANSISTOR 2SC945P	T2SC00945P
TR604	TRANSISTOR 2SC945P	T2SC00945P
-	TRANSISTOR 2SA1162GR	T2SA01162G
TR605	TRANSISTOR 2SC2712	T2SC02712G
TR606	TRANSISTOR 2SC2712	T2SC02712G
TR607	TRANSISTOR 2SC2712	T2SC02712G

Diodes

REF#	DESCRIPTION	PART#
D601	DIODE 1N5711	ED1N05711Z
D602	DIODE 1SS181	EDSS00181Z
D604	DIODE 1SS181	EDSS00181Z
D605	DIODE 1SS181	EDSS00181Z

REF#	DESCRIPTION	PART#
X601	RESONATOR, 4MHZ, CERAMIC	EX14N46510

Switch

REF#	DESCRIPTION	PART#
S601	TACT SW	EWPS33042X

Buzzer

REF#	DESCRIPTION	PART#
-	BUZZER RKM35-4A	EX14N46511

Battery

REF#	DESCRIPTION	PART#
L1	BATTERY LITHIUM, 3V 170maH	EX08N41405

Connectors

REF#	DESCRIPTION	PART#
-	PCB CONNECTOR SOCKET 6P	EX07N41266
-	PCB CONNECTOR SOCKET 4P	EX07N41250
-	PCB CONNECTOR SOCKET 3P	EX07N41216
CN602	PCB CONNECTOR SOCKET 2P	EX07N41226
CN608	PCB CONNECTOR SOCKET 2P	EX07N41226
CN609	PCB CONNECTOR SOCKET 2P	EX07N41226
-	PCB CONNECTOR SOCKET 3P	EX07N48244
-	PCB CONNECTOR SOCKET 4P	EX07N48440
-	PCB CONNECTOR HOUSING 7P	EX07N48011
-	PCB CONNECTOR HOUSING 6P	EX07N48010
-	PCB CONNECTOR SOCKET 10P	EX07N48416
-	SHORT PIN 2P	EX07N48151

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