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Hitachi Section 1



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Hitachi	162E	Frame cramping at top.	R613 high.
Hitachi	46TN series	HT settings	HT=110v in 21" sets; 146v in 25/28" sets (note ZD950 NOT 10v zener)
Hitachi	46TN series	Int dead	Dry joint R719 in prot network (half hidden by strut)
Hitachi	A series	St/by only	Check R952 47k or 68k, check dry joints IC950, 951 & 952
Hitachi	A series	To check psu - remove Q904 & sw on	If no volts replace R901 82k, R909 6k8
Hitachi	A4	Dead - tripping with relay clicking in time	Connect dummy load to removed R751 3R3 7w connection & HT ok at 150v with sound. IC601 Field/E/W chip proved faulty & D701/D701A
Hitachi	A5	E/W faulty	Replace IC601 TDA8350Q
Hitachi	A5	field fault	TDA8350Q & D718 BYD33
Hitachi	A5	To enter service mode	Enter factory mode by holding "Vol+" & "Vol-" whilst sw on, then press "Tuning" button under flap on r/c
Hitachi	A5	To exit Factory Mode (Model displayed on screen)	Switch to st/by whilst service mode is displayed
Hitachi	A5	To get out of factory pre-set mode (Model & proc type displayed on screen)	Hold "Vol+" & "Vol-" buttons in whilst switching on
Hitachi	A7	Dead - overvolts Zener PGK180 s/c	Check dry joints HT pot RV950, R950 68k, R952 8k2 & opto IC901 Pt no T548013 -see write up from Dave Hewitt
Hitachi	A7 series	Int reverts to st/by - due to high HT of 175v (135v)	Check for dry joints (often invisible) on Set HT pot VR950
Hitachi	C1410R	Tuning goes off slightly	VL08 BC858C sm in AFC cct; VF06 BF840 sm
Hitachi	C1411T	No Txt , r/c & chan skipping	txt chip IT01 xtal osc inop. XT01 replaced
Hitachi	C1411T	only store 1 chan - in skip mode & r/c locks	27Mhz xtal in txt pcb
Hitachi	C1414-300	Dead - Q903 ON4584 s/c chopper tr	Replace with Hitachi BUT12AF & R951 39k 0.6w metal film
Hitachi	C1414R	DEAD , Q703 THYRISTOR SWITCHING	CHECK/REPLACE ZD701 36v
Hitachi	C1414R-311	dead	Q903 ON4584 chopper s/c R951 39k hi res
Hitachi	C1414T	Dead with ZD952 prot zener s/c	HT too high - R951 39k 1/2w o/c
Hitachi	C1414T	off no st/by led	82k 0.5w start up res R901 o/c
Hitachi	C1414T	Stuck in st/by - no line drive	Safety thyristor Q703 TS0820-20 faulty - check by removing - set should then work
Hitachi	C1420VT	Crack from LOPTx & st/by only	replace loptx
Hitachi	C1420VT	No pic/sound	No tuning volts - 33v stab ic faulty
Hitachi	C1420VT	St/by only	Prot tr Tr7550 faulty
Hitachi	C1474R	Dead	ZD910 S.C. BZX79C2V7
Hitachi	C15P108 Salora L	SLOW START UP	CN10 1000uF 35v
Hitachi	C15P108 Salora L	TEXT OK BUT NO PICTURE	PFO1 220R PRESET O/C FEEDS PIN 34 TDA3301
Hitachi	C1646	Dead - tries to start.	R908 22K high or o/c . making HT rise so set shutting down instantly , chk HT with line o/c & bulb
Hitachi	C1646	DEAD , FUSE BLOWN	CHANGE Q903 -T 633133 , Q901 - 2390022 , IC901 T900406 ZD903 T536171 ZD904 - T 536171 , ZD901 - T 536197
Hitachi	C1714T	Pic size decreases with brightness	HT low - CNX82A opto coupler IC901 s/c pri
Hitachi	C1714T	St/by only	Dis supply to fop chip to check if this is cause - if then ok apart from field collapse, check fop chip TA8427k & D702
Hitachi	C1714T etc	Field o/p chip repeatedly fails	Replace ic 601. get two 33v Zener diodes and connect them in series (BZX79C33V) connect the anode to pin 1 of ic601 cathode to pin 2 of ic 601. Fit 10nF 50v capacitor across the frame scan plug E701 on print side of the plug. If the ic still blows after this mod. a new CRT is required. The tube is flashing over. This applies to all sizes of 14T/TE range of sets
Hitachi	C1714TE (A15 chassis)	No Txt & delay in returning to st/by	Check 5v supply pin 44 micro - if low ZD4001 5v1 zener is sus
Hitachi	C1714TE (A15 chassis)	To acess service menu	press the following buttons on the remote: 4 4 STATUS MUTE TV in that order and fairly quickly. The service menu is displayed. Check that BYTE 1 = 7D; BYTE 2 = 20 These are two hex digits - to exit menu press st/by
Hitachi	C1719T	Dead	C906 4µ7 250v, ZD903 P6KE130 & check R902/3 82k & C908 33µ
Hitachi	C17P118 L	Standby - going into standby intermittently	Drys on transformer M600 , crack from pin 1 to D709.

Hitachi	C2114R	At switch on the raster would turn bright green wi	but this time the blue gun was affected.
Hitachi	C2114R	Bright green raster with flyback lines	Crt faulty (s/c within tube)
Hitachi	C2114R	Pic displaced to right	Clipper diodes D704 & 703 1N4531
Hitachi	C2114R	Still dead aft replacing psu comps blown (HT OK)	IC601 TA8427K fop chip faulty
Hitachi	C2114T	Dead with 330v at chopper tr	R901 82k start up res o/c
Hitachi	C2114T	dead with s/c field chip 112v ht hi at 130v	R951 39k hi value and field chip
Hitachi	C2114T	Loss of sigs/functs	IC001 TMP47C1237N/N155 faulty - fit kit A523217 (New IC & links)
Hitachi	C2114T	No R/C functs aft ½ hr	Micro supply high at 5.35v - Zener ZD001
Hitachi	C2114T	No sound aft few hours	TNP47C1237N micro responds to heating/cooling & faulty
Hitachi	C2114T	No text.	X2231 IN TEXT CCT PtNo E516045
Hitachi	C2114T	Repeated failure of field chip	Check by replacing C603 100μ 35v, C719 1000μ 35v
Hitachi	C2114T	reverts to st/by at sw on	TA8427K field o/p chip faulty
Hitachi	C2114T	St/by only	s/c across 27v supply - field o/p chip IC601 TA8427K u/s
Hitachi	C2114T	St/by only	R951 39k ½w hi res, FOP chip TA8427K short
Hitachi	C2114T-311	No control via front controls/sigs disappear	Fit updated micro kit pt no A523217
Hitachi	C2118T	No signals	R044 12k in tuning line o/c
Hitachi	C2118T	No tune or chan store	R144 100k 1w, R044 120k 1w in feed to 33v reg
Hitachi	C2118T	Tuner drift	R144 (10k) & R044 (12k) both 1watt
Hitachi	C2119E	St/by only	Replace field chip & 39kres in psu next to ht preset
Hitachi	C2119R	Field bounce	1N4002 boost diode
Hitachi	C2119TZ	St/by only	Check TA8427K F o/p chip for shorts
Hitachi	C2133TN	Dead - st/by only	12v supply missing Pin 16 TEA2164 chopper chip - VE07 BC858B sm on front panel s/c
Hitachi	C2133TN	Field - only half fills screen with scrolling graphics & blank raster	NS10 fop chip TDA8350Q, RS04 5k6 ¼w chip res from pin 8 to chassis, safety res RK68 10R ¼w pin 8 chip &C029 220μ, CK68 100μ
Hitachi	C2133TN	Line driver trfrmr blows aft 20 mins	Diode in damping cct across pri of line dr trfrmr faulty
Hitachi	C2133TN	No line drive	Line driver Tr s/c but new one overheated & failed; VK11 & VK16 dry joints
Hitachi	C2133TN (Nokia)	Field only ½ size with osd scrolling - rest of raster blank	Field o/p chip NS10 TDA8350QRS04 chip resistor (5K6/0.25W) from pin 8 to deck. Safety resistor RK68 (10R/0.25W) to pin 8 of chip from 43 volts supply & check the two caps smoothing the 43 volt supply rail from the LOPT C069 (220uF) CK68 (100uF)
Hitachi	C2133TN (Nokia)	Snowy raster only - no osd	dis clock/data lines from 64 pin nicam proc chip brought back pic - chip faulty (£35)
Hitachi	C2133TN Stereo	DEAD , JUST SBY LIGHT	NO 12v TO TEA2164 IC - VE07 (BC858) S/C. FRONT PANEL
Hitachi	C2146 / 2546 / 2846	Int Nicam reception	Caused by solder bridge across pins 24 & 25 Nicam dec chip IC4201
Hitachi	C2146 etc	"C46TN" displayed - in factory set up mode	Press the 2 VCR buttons on hset together - when the menu appears go to st/by
Hitachi	C2146 etc	Field - lines at top of pic	IC601 field chip
Hitachi	C2146TN	Dead - LED lit	Check 5v reg IC952 & 8v reg IC951, IC950 st/by reg & Field o/p chip TA8427K
Hitachi	C2146TN	Int cuts out	Dry joints Q951, Q952 & R952 82k, R950 56k hi res
Hitachi	C2146TN	Int field collapse	Dry joint on R710
Hitachi	C2146TN	Int or totally dead	Check for dry joints at 5v IC952 & 8v IC951 regs, line dr tr Q701 & line dr trfrmr
Hitachi	C2146TN	Int st/by	IC950 dry joints
Hitachi	C2146TN	Mode set up menu	Switch on holding in "Vol+" & "Vol-" together; Model No now displayed on screen; press 2 x rec buttons on hset together to display Vers & Standard; Version 46 V1.0 (later IC V2.0C)....Standard....I (for uk)..adjust with key 9....L.....key 8...DK.....key 0 BG.. 7...DEFAULT...0 1 to 6 alters value TV button return to 0...A18 Programme up button adjusts value.....LOO programme down value adjusts valueIf H shown set is hotel mode....and is removed by -/-- button....after adjustment put set into standby...
HITACHI	C2146TN	SHUTS DOWN ONTO STANDBY	CHECK IC950,IC951 AND IC952 FOR DRY JOINTS
Hitachi	C2146TN	SHUTS DOWN ONTO STANDBY	CHECK IC950,IC951 AND IC952 FOR DRY JOINTS
Hitachi	C2146TN etc	No sound	TDA7263 Audio o/p chip
Hitachi	C2146TN etc	Trips soon aft sw on	Dry joints R719/716 (LH rear of LOPTx)- hard to access, also check R905 0R5 or 2x 1R in Parallel
Hitachi	C2156TN	Dead - trips once or twice at sw on	High HT - R950 68k hi res
Hitachi	C2164TN	Dead	Check for dry joints R719 in trip cct
Hitachi	C2164TN	Int trip	ZD701 pt no 2339251M
Hitachi	C2164TN	SHUTS OFF INT	ZD701 Pt No 2339251M
Hitachi	C2164TN	To check psu - remove Q904 & sw on	If no volts replace R901 82k, R909 6k8
Hitachi	C2164TN	Trips at sw on	TDA7263M audio o/p chip s/c
Hitachi	C2164TN C2564TN	WONT START , JUST MOMENTARILY ENERGISES THEN DIES	CHECK 25v SUPPLY TO AUDIO
Hitachi	C2166TN	Dead with dim st/by light	Dry joints IC902
Hitachi	C2166TN	Int trip	IC952 5v reg faulty
Hitachi	C2166TN	St/by only aft initial EHT rush	Dry joints IC951/2
Hitachi	C2166TN	St/by only aft poor start up	Dry joints IC952 (under plastic rail)
Hitachi	C2236	WHITE SHADOW LHS SCREEN	CHECK C715 (2.2uF 350V)
Hitachi	C2416TN	Sound missing	Memory IC002
Hitachi	C2508	Int dead & makes screeching sound when it does	Mains smoothing cap 150μ 400v low cap
Hitachi	C2508	Tuner drift on upper bands	ZD101 33v stab
Hitachi	C2508T	Long time to come on	Mains smoothing cap 150μ 400v virtually o/c
Hitachi	C2508T	Unstable pic until heated	C922 faulty


Hitachi	C2514T	Dead - ZD952 P6KE180A zener s/c	R951 82k has gone high in value
Hitachi	C2514T	NO PICTURE OR SOUND ALL CONTROLS SET TO "0" AND SE	R086 D/J
Hitachi	C2514T	psu blown	R951 82k .5w could be cause of BUT12AF & ZD952 s/c & opto coupler IC901 faulty
Hitachi	C2514TE	Weak vid/hiss only in AV mode OK in normal	Q005/007 2SC3413 rh of scart skt faulty
Hitachi	C2519	slow trip	TDA3654 field o/p chip s/c
Hitachi	C2519T	switches on with max sound	R1555 47R o/c feeds μproc with 5v
Hitachi	C2524	dead after width variation & crackling	replaced R909 39k, Q903 BUT12AF, Q871 BU508AF, C908 4μ7 & KD903. Final fault was s/c on tuner 9v line
Hitachi	C2524T	No sigs	no tuning volts R144 10k, R044 12k o/c
Hitachi	C2524TZ	LOPTx replacement	HR type HR7832 not as in cat - also check R909 39k for hi HT
Hitachi	C2544TN	Trips at 1 sec interval	C924 470μ 16v in 5v supply or R609 1R0 in 27v supply o/c
Hitachi	C2546	int wont start	check R901 82k, R950 68k, R952 82k and set ht for 146v
Hitachi	C2546	stuck in st/by	reg ic dry joints & R952 68k hi res
Hitachi	C2546TN	Field collapse	check for dry joints fusible res in psu
Hitachi	C2546TN	Int operation then dead	Check dry joints IC950, IC951, IC952 & if still faulty replace IC950
HITACHI	C2546TN	INTETMITTANTLY CUTS OUT	RESOLDER IC951
Hitachi	C2546TN	INTETMITTANTLY CUTS OUT	RESOLDER IC951
Hitachi	C2546TN	Reverts to st/by aft a sec with "growling"	Scan coils duff
Hitachi	C2546TN	Stuck in st/by prot cct in operation	12v supply low - ZD952 11v zener leaky
Hitachi	C2556TN	Dead	R950 68k ½w hi res (near ht pot)
Hitachi	C2556TN	INT DEAD	Dry joints set HT pot
Hitachi	C2558	repeated failure of TDA3654 field o/p chip	dry joint scan coil tag also replace flyback boost cap to pin 6 (47 or 100μ)
Hitachi	C2558TN	High HT	R941 100k, ZD941 10v zener - HT = 157v
Hitachi	C2558TN	st/by - wont come out of using front controls	use hset - reason u/k
			ENTER THE PROGRAMME MODE OF THE SET BY PRESSING AND HOLDING BOTH THE VOLUME + AND VOLUME - BUTTONS WHILE SWITCHING THE SET ON BY THE MAINS ON OFF SWITCH. AFTER A FEW SECONDS, THE CHANNEL DISPLAY WILL GO OUT AND THE SCREEN PROMPT "SERVICE 05" WILL APPEAR. PULL DOWN THE FRONT COVER OF THE REMOTE CONTROL HANDSET TO REVEAL THE VCR CONTROLS PRESS THE TWO RECORD BUTTONS TWICE. THIS WILL BRING UP THE "TUBE" MENU.PRESS THE TELETEXT BUTTON ON THE REMOTE HANDSET,AND THE WORDS "TEXT SERVICE MODE" WILL FLASH YOU CAN NOW ADJUST THE DATA CAPTURE WINDOW BY USING THE BLUE COLOURED BUTTONS ON THE REMOTE HANDSET IT IS RECOMENDED THAT YOU START BY PRESSING THE BOTTOM BLUE BUTTON.EACH TIME YOU PRESS THE BUTTON WILL MOVE THE ADJUSTMENT ONE "NOTCH". YOU MAY NEED TO PRESS THE BUTTON 7-10 TIMES WHEN THE TEXT CLOCK STARTS TO RUN NOTE THAT POSITION. THEN CONTINUE TO PRESS THE SAME BLUE BUTTON ON THE REMOTE HANDSET,NOTING THE NUMBER OF EXTRA PRESSES REQUIRED,UNTIL THE TEXT CLOCK STOPS ONCE AGAIN. NOW USING THE UPPER BLUE BUTTON,MOVE THE SETTING HALFWAY BETWEEN THE TWO POINTS YOU HAVE JUST NOTED I.E. IF THERE ARE EIGHT STEPS BETWEEN THE TWO POINTS AT WHICH THE TEXT CLOCK STOPS THEN PRESS THE UPPER BLUE BUTTON FOUR TIMES. WHEN YOU HAVE REACHED THIS POINT THE TEXT SHOULD RUN NORMALLY.PRESS THE STORE BUTTON ON THE REMOTE HANDSET AND THEN GO TO STANDBY TO EXIT THE SERVICE MODE. IF FOLLOWING THIS ADJUSTMENT THESE SETTINGS WILL NOT STORE, REPLACE I.C.2002 PART No E740007
Hitachi	C2564	No Txt	

Note this is information should only be used by a qualified technician.



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