

TX-28/25LD20C Service Manual

Specifications

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Service Support

Service and repair of this product is supported by Panasonic's LUCI interface.

This interface provides a link between the TV and a standard PC to allow a number of diagnostic and control functions to be performed.

For more details contact your local Panasonic company.


BACK

EXIT

Service Manual



TELEVISORE A COLORI

TX-28LD20C

TX-25LD20C

Telaio EURO-4H

Specificazione

(I numeri tra parentesi { } si riferiscono al modello TX-25LD20C)

| | |
|--------------------------------|---|
| Alimentazione: | 220-240V ac, 50Hz |
| Consumo: | 121W |
| Consumo in Stand-by: | 1,4W |
| Impedenza dell'antenna: | 75Ω non bilanciata |
| System di Ricezione: | CCIR 625 Linee PAL-B/G, H, D/K, PAL-525/60 SECAM B/G, D/K M.NTSC NTSC(Solo ingresso AV) |
| Canali Ricezione: | VHF E2-E12 VHF H1-H2 (ITALY) VHF A-H (ITALY) VHF R1-R2 VHF R3-R5 VHF R6-R12 UHF E21-E69 CATV (S01-S05) CATV S1-S10 (M1-M10) CATV S11-S20 (U1-U10) CATV S21-S41 (HYPER) |
| Frequenze Intermedie: | Video 38,9MHz Audio 33,16MHz, 33,4MHz, 32,4MHz (A2 Stereo) 33,05MHz, 34,05MHz (NICAM) 34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM) |
| Colore | |
| Prese Video/Audio: | |
| USCITA AUDIO MONITOR | Audio (RCAx2) 500mV rms 1kΩ |
| INGRESSO AV1 | Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RVB (21 pin) |
| USCITA AV1 | Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ |

| | |
|----------------------------|--|
| INGRESSO AV2 | Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ S-Video IN Y: 1V p-p 75Ω (21-pin) C: 0,3V p-p 75Ω |
| USCITA AV2 | Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ Uscita selezionabile (21 pin) |
| INGRESSO AV3 | Audio (RCAx2) 500mV rms 10kΩ Video (RCAx1) 1V p-p 75Ω |
| Tensione all'anodo: | 28kV ± 1kV |
| Tubo Catodico: | A66ECF50X82 66cm {A59ECF50X82 59cm} |
| Potenza Audio: | 2 x 15W (Musicali) 8Ω Impedenza |
| Cuffia: | 8Ω Impedenza |
| Accessori: | Telecomando 2 x R6 (UM3) Batterie |
| Dimensioni: | |
| Altezza: | 596,5mm {550,5mm} |
| Larghezza: | 778mm {730mm} |
| Profondità: | 481mm {478,5mm} |
| Peso netto: | 32kg {27kg} |

Le caratteristiche possono variare senza preavviso.
Peso e dimensioni sono approssimate.

NOTA: Per maggiori informazioni consultare la guida tecnica del telaio EURO-4H.

Indice

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Norme di sicurezza

Precauzioni

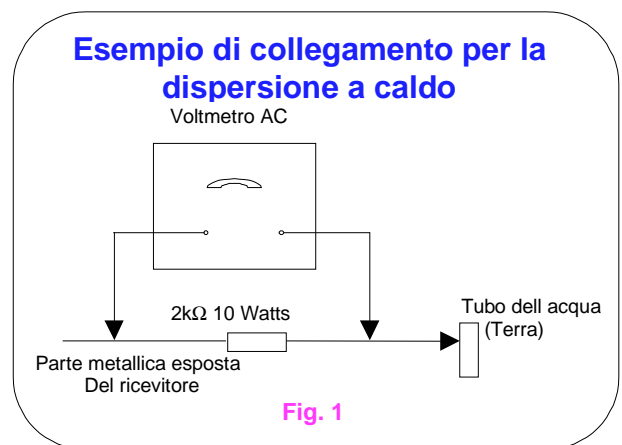
1. E'Consigliabile utilizzare un trasformatore di isolamento prima di eseguire ogni intervento sul telaio.
 2. Durante l'assistenza, verificare lo stato dei conduttori specialmente nei circuiti ad alta tensione. In caso di corto circuito, sostituire tutti le parti surriscaldate o danneggiate.
 3. Dopo l'assistenza, assicurarsi che tutti gli accorgimenti di protezione (isolatori, schermi, isolatore R-C, ecc) siano correttamente installati.
 4. Quando il televisore non viene utilizzato per lunghi periodi, scollegarlo dalla rete.
 5. Alta tensione 29kV è presente quando il televisore è in funzione. Utilizzare il televisore senza il pannello posteriore comporta il pericolo di scosse elettriche dai circuiti di alimentazione. L'assistenza deve essere eseguita solo da personale specializzato a conoscenza delle necessarie precauzioni da adottare. Prima di intervenire sul cinescopio, scaricare a massa l'anodo dello stesso.
 6. Dopo l'assistenza assicurarsi di eseguire le seguenti prove di dispersione per prevenire rischi di scossa elettrica all'utente.
4. Verificare ogni parte metallica esterna misurando la tensione ogni volta.
 5. Invertire la presa a.c. di alimentazione e ripetere le misure precedenti.
 6. Il potenziale in ogni punto non deve superare 1,4V RMS, in caso superi questo valore, c'è pericolo di scossa elettrica e il televisore deve essere riparato e controllata prima di essere riconsegnato al proprietario.

Controllo a freddo di dispersione

1. Disinserire il cavo di alimentazione e corto circuitare i due terminali.
2. Azionare l'interruttore di accensione.
3. Collegare uno strumento per la misure di resistenza con segue un puntale sulla spina del cavo di alimentazione e l'altro sul telaio del televisore o su una parte metallica (ad esempio viti) collegate telaio. Se la parte metallica ha un collegamento col telaio la lettura dovrà essere compresa tra i valori 4MΩ e 20MΩ, se la parte metallica non ha un collegamento con il telaio la lettura dovrà essere.

Controllo a caldo di dispersione

1. Inserire la spina nella presa di corrente. Non usare un trasformatore di isolamento per questo controllo.
2. Collegare una resistenza da 2kΩ 10W in serie con una parte metallica esterna del televisore e con un punto di terra (esempio: tubi dell'acqua).
3. Utilizzare un voltmetro a.c. con sensibilità 1000Ω/Volt o più per misurare il potenziale ai capi della resistenza.



Radiazioni raggi X

Precauzioni:

1. La sezione ad alta tensione e il cinescopio sono sorgenti di raggi X.
2. In caso di utilizzo di una sonda per alta tensione, assicurarsi che la stessa sopporti 29kV senza pericolo di emissione di raggi.

NOTA: E'importante verificare periodicamente la funzionalità del misuratore di tensione.

1. Regolare la luminosità al minimo.
2. Misurare l'alta tensione. La lettura dovrà essere 28kV ± 1kV.(se è necessario un immediato intervento tecnico per prevenire danni.)
3. Per prevenire la possibilità di emissione di raggi X, è indispensabile utilizzare il cinescopio specificato.

Consigli per l'assistenza

Come rimuovere il pannello posteriore

1. Rimuovere le 11 viti come indicato in Fig. 2.



Fig. 2

Ubicazione dei Controlli

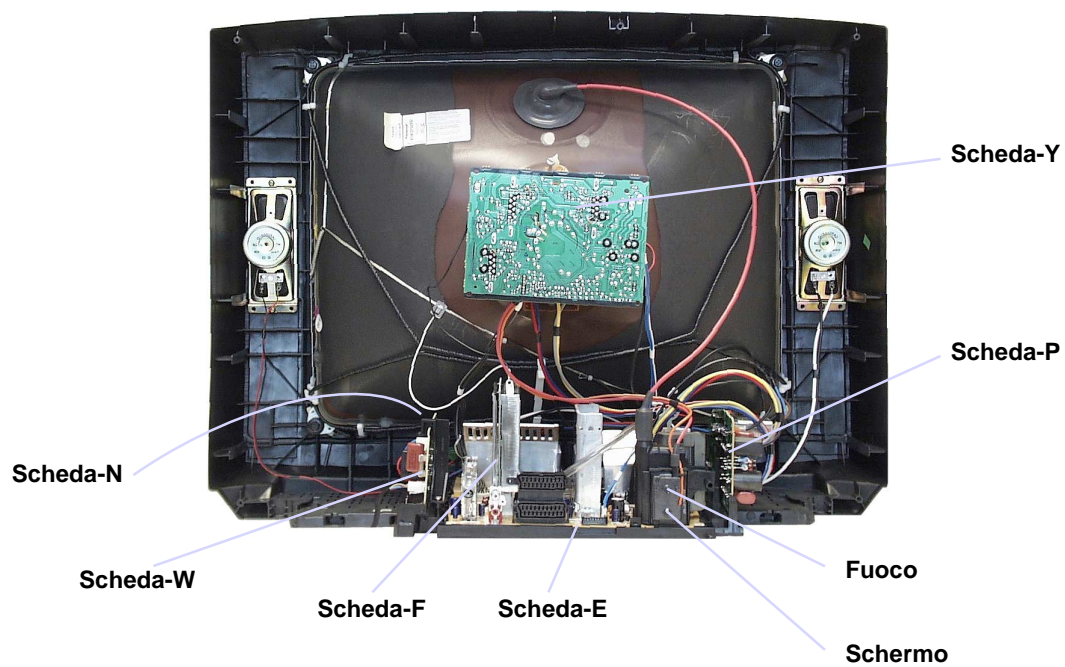


Fig. 3

Procedura di taratura

| TARATURE/PREPARAZIONE | REGOLAZIONE |
|--|---|
| REGOLAZIONE +B 1. Ricevere un segnale a barre colori. 2. Predisporre i controlli :- Luminosità: minimo Contrasto: minimo Volume: minimo | 1. Con il trimmer R811 regolare la tensione B2 per 148V±1V. 2. Confermare le seguenti alimentazioni B9 5 ± 0,25V B10 5 ± 0,25V B5 12 ± 0,5V B11 33 ± 1,5V B4 16 ± 1V B7 8 ± 0,5V B12 26 ± 2V B8 6 ± 0,5V B3 36 ± 1,5V B13 13 ± 1V B1 205 ± 10V B14 14 ± 1V |
| CUT OFF / Ug2 Test 1. Ricevere un segnale a barre colori. 2. Smagnetizzare il cinescopio esternamente. 3. Entrare nel SERVICE Mode 1. 4. Selezionare CUT-OFF. | Per regolare il cutoff collegare la sonda sul blu. Premere STR e regolare con il tasto giallo o blu per 160 volt, premere STR . Selezionare Ug2 e regolare la VR per visualizzare O.K. |

SELF CHECK (auto diagnosi)

Il SELF CHECK é usato per testare le linee "BUS" ed il codice esadecimale del TV. Per richiamare il SELF-CHECK occorre premere il tasto di "**STATUS**" sul telecomando e contemporaneamente il tasto (-) sul TV. Attenzione: quando si richiama il Self-check, il TV verrà resettato ritornando alle condizioni di fabbrica, cancellando i canali sintonizzati dal cliente. Sullo schermo apparirà la seguente in tabella :-

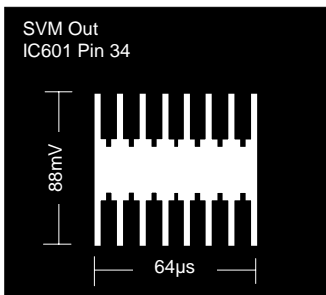
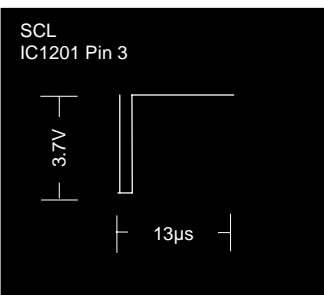
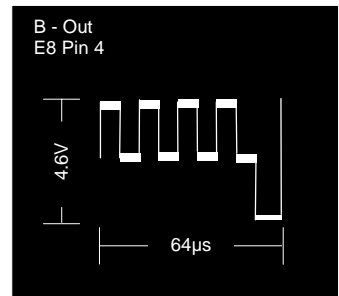
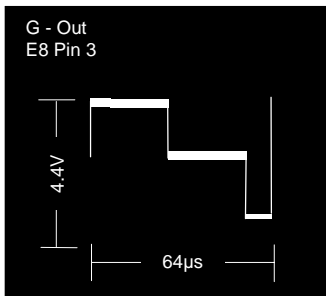
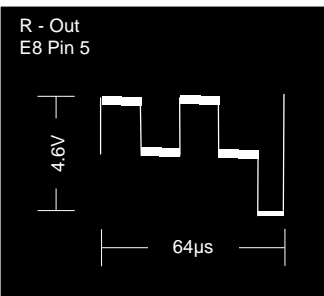
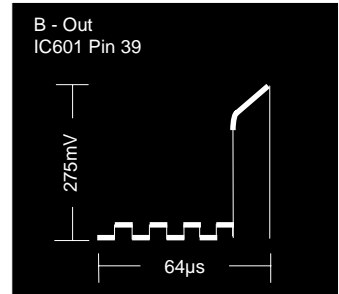
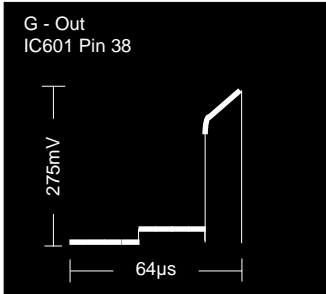
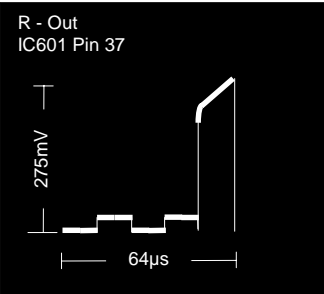
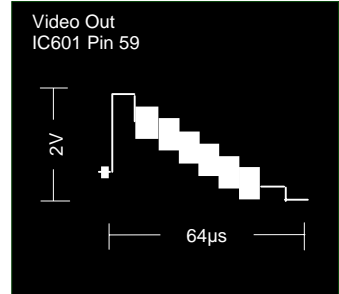
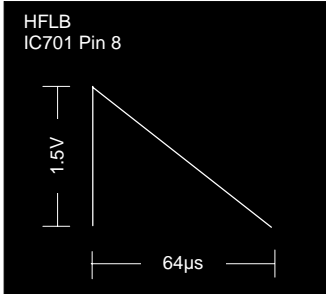
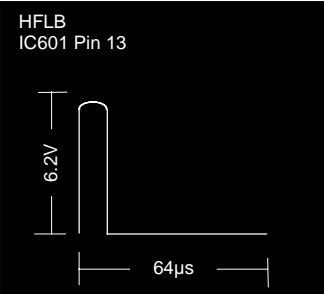
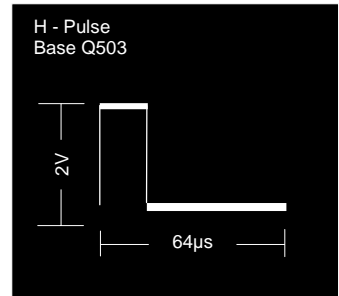
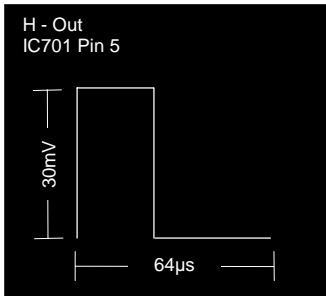
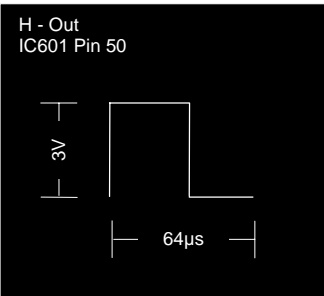
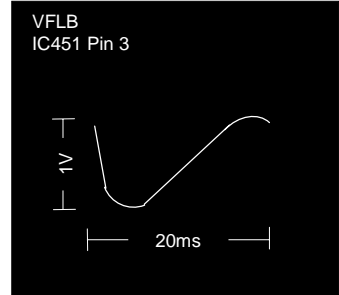
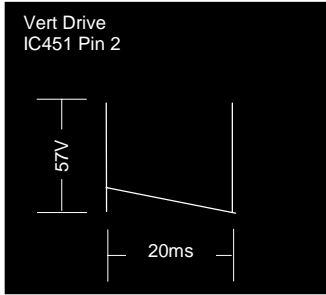
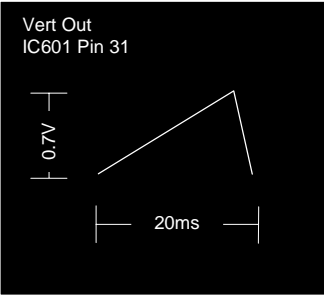
| | | | |
|---------|------|-----|------|
| VPC | O.K. | PCB | O.K. |
| CIP | O.K. | Cab | O.K. |
| SRC | O.K. | | |
| DDP | O.K. | | |
| TUN | O.K. | | |
| E2 | O.K. | | |
| MSP | O.K. | | |
| DPL | -- | | |
| OPTION1 | 3D | | |
| OPTION2 | 1C | | |
| OPTION3 | 1D | | |
| OPTION4 | 40 | | |
| OPTION5 | EF | | |
| OPTION6 | A1 | | |

Se uno degli ingressi/uscite della "CPU" e' riconosciuta come incorretta, sullo schermo apparirà " -- " invece di " OK "

Materiale di supporto per l'assistenza TV.

- LUCI** interface kit (Linked Utility Computer Interface)
 Il kit contiene l'interfaccia, i cavi per la connessione al TV e al PC, il software per il diagnostico.
 Ogni volta che verrà introdotta una nuova gamma di modelli sarà disponibile il nuovo software aggiornato.
- VICI** (Visual Interactive Computer Information)
 Questi C.D. rom contengono le seguenti informazioni:
 - Service Manual
 - Libretti di istruzioni (anche in lingua italiana)
 - Informazioni tecniche
- TASMIN** (Technically Advanced System for Multimedia Interactive Notes)
 Rappresenta il primo passo per avere informazioni tecniche più velocemente ed in modo interattivo.
- Per riparare la scheda 100 Hz è disponibile il Kit di cavi d'estensione avente il seguente codice di ricambio : TZS9EK008

FORMA D'ONDA

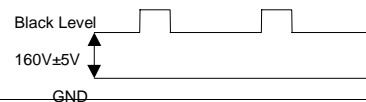


Valori di allineamento, esempi:

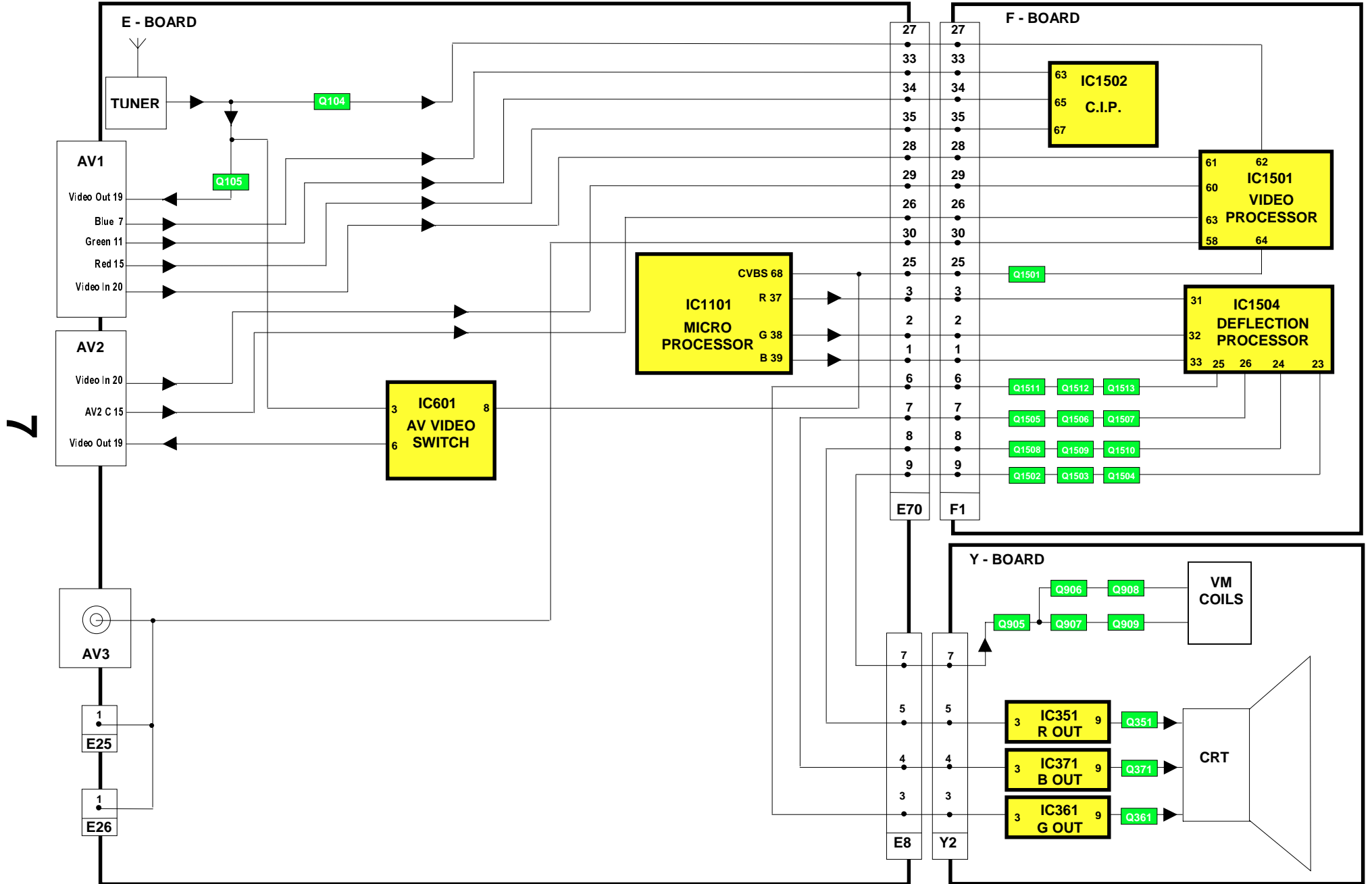
(N.B. I valori indicati sullo schermo sono approssimative.)

1. Regolare i toni bassi nella massima posizione, regolare i toni alti nella minima posizione, premere il tasto volume meno sulla tastiera del TV, e nello stesso tempo premere il tasto "INDEX" sul telecomando.
2. Premere i tasti **ROSSO** o **VERDE** per selezionare le Funzioni.
3. Premere i tasti **GIALLO** o **BLU** per modificare i valori.
4. Premere il tasto "STR" sulla tastiera del TV per memorizzare la regolazione eseguita.
5. Per uscire dal service mode occorre premere il tasto "N" sul telecomando.

| Funzione | Valori indicativi | Impostazioni |
|-----------------------|---|---|
| Posizione orizz | H-Pos 061 | Posizione ottimale. |
| V-Pos | V-Pos 005 | Posizione ottimale. |
| Ampiezza orriz | H-Amp 055 | Posizione ottimale. |
| Ampiezza vert | V-Amp 054 | Posizione ottimale. |
| EO-ampiezza | EW-Amp 1 -128 | Posizione ottimale. |
| EO-ampiezza | E/W-Amp 2 006 | Posizione ottimale. |
| Correz-trapezoidale | Trapez-1 047 | Posizione ottimale. |
| Correz-trapezoidale | Trapez-2 -128 | Posizione ottimale. |
| Linearita vert | V-Lin 006 | Posizione ottimale. |
| Simmetria verticale | V-Sym 002 | Posizione ottimale. |
| DVCO | DVCO -005 | Premere il tasto blu, poi STR . |
| Cutoff | Cut-off 0171 | Per regolare il cutoff collegare la sonda sul blu. Premere STR . e regolare con il tasto giallo o blu per 160 volt, premere STR . Selezionare Ug2 e regolare la VR per visualizzare O.K. |
| Ug2 Test | Ug2 055 O.K. | |
| Highlight Lowlight | High 0902 0777 0864 Low 0117 0132 0112 | Posizione ottimale. |
| Sub-Brightness | Sub-Brightness 255 | Posizione ottimale. |

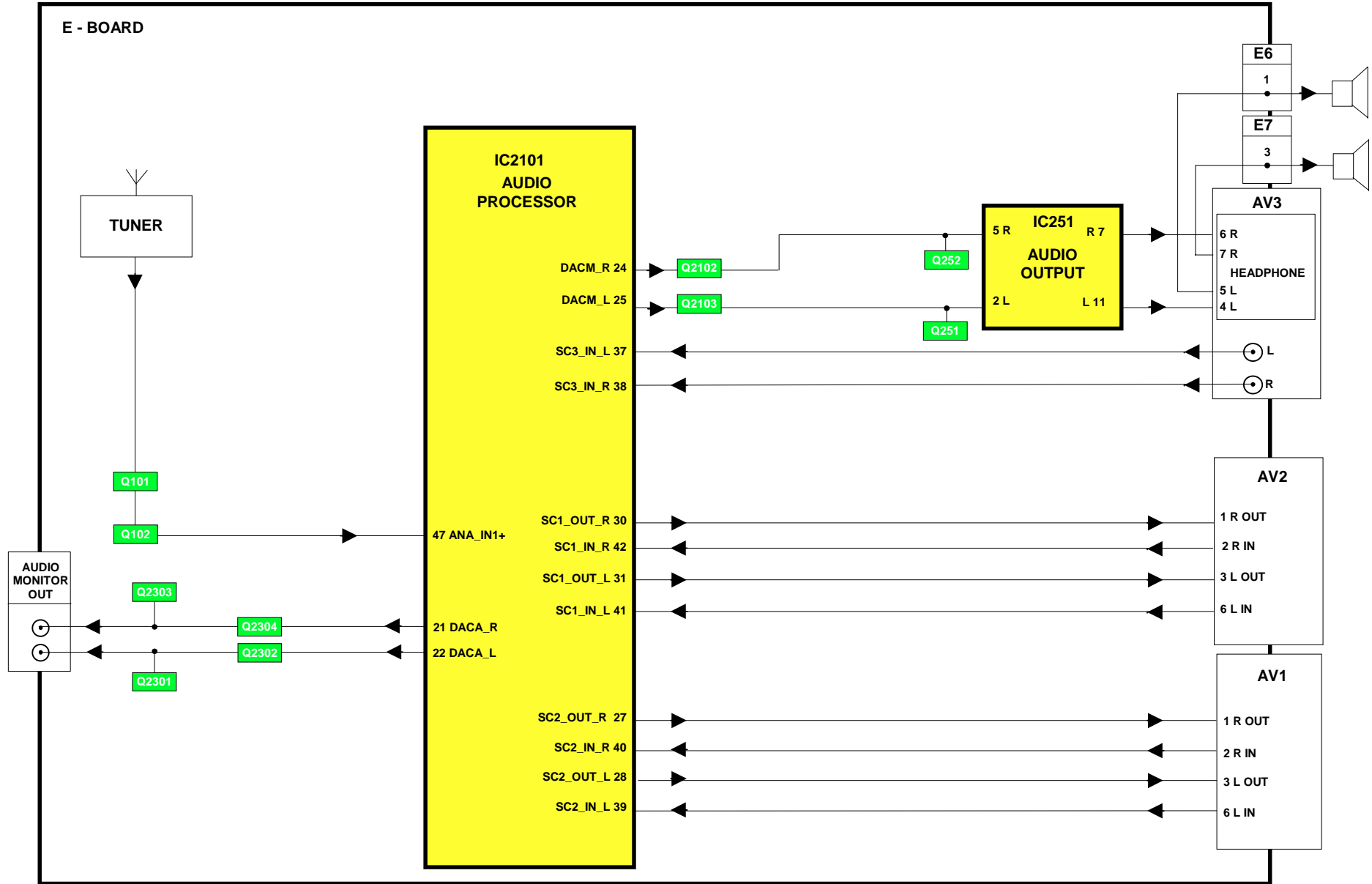


SCHEMA A BLOCCHI SEGNALI VIDEO



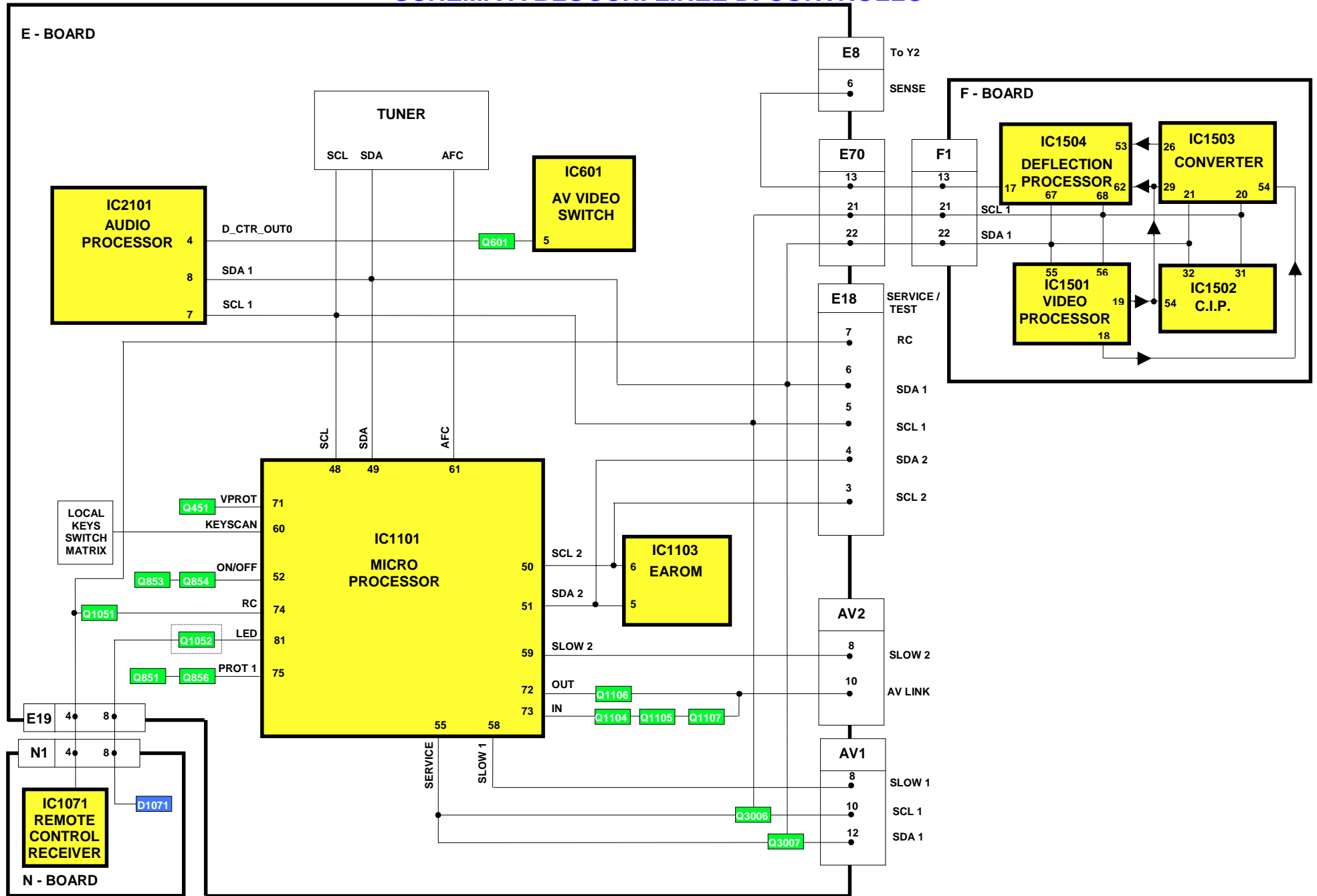
SCHEMA A BLOCCHI SEGNALI AUDIO

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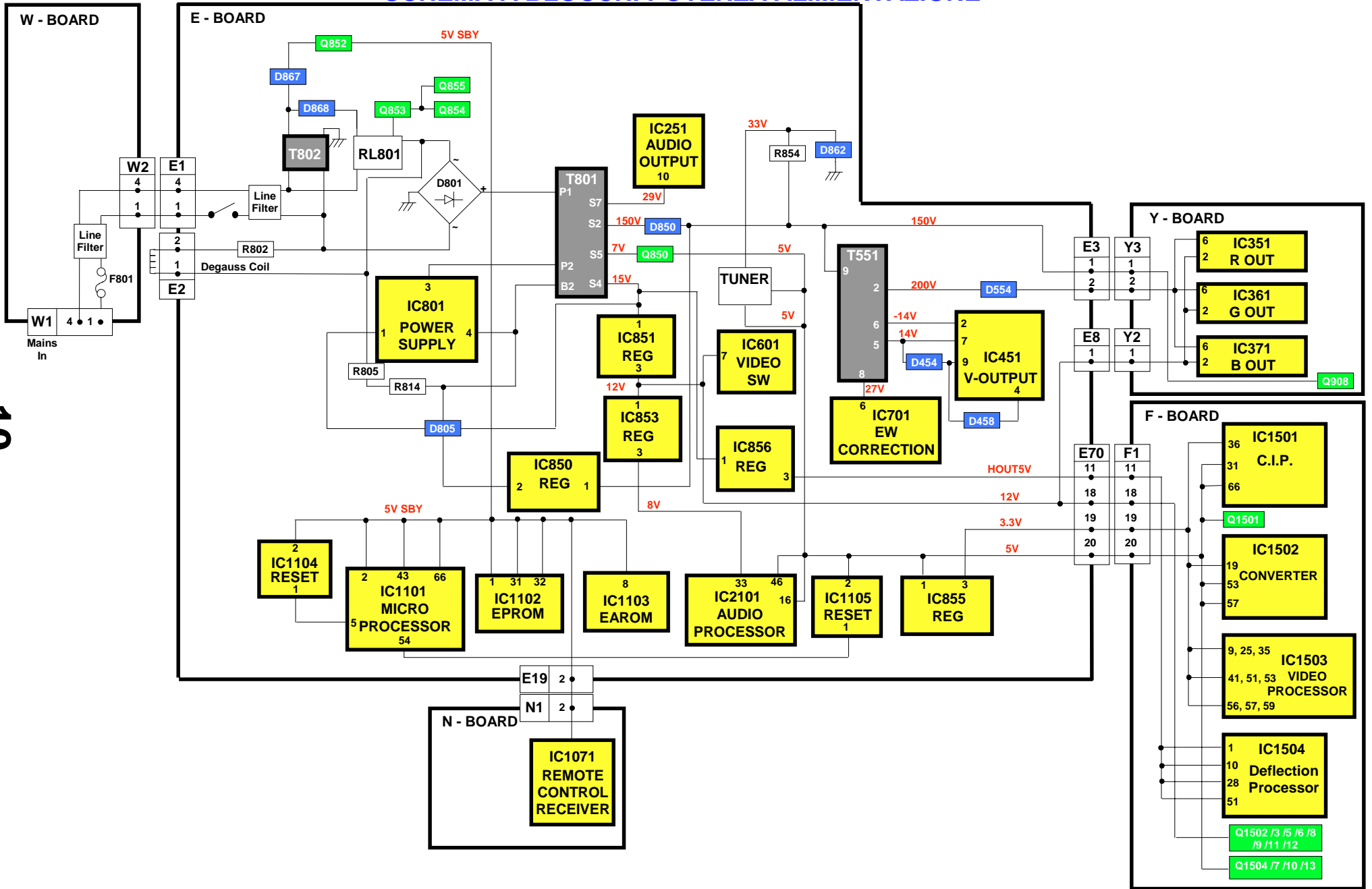
SCHEMA A BLOCCHI LINEE DI CONTROLLO

6



SCHEMA A BLOCCHI POTENZA ALIMENTAZIONE

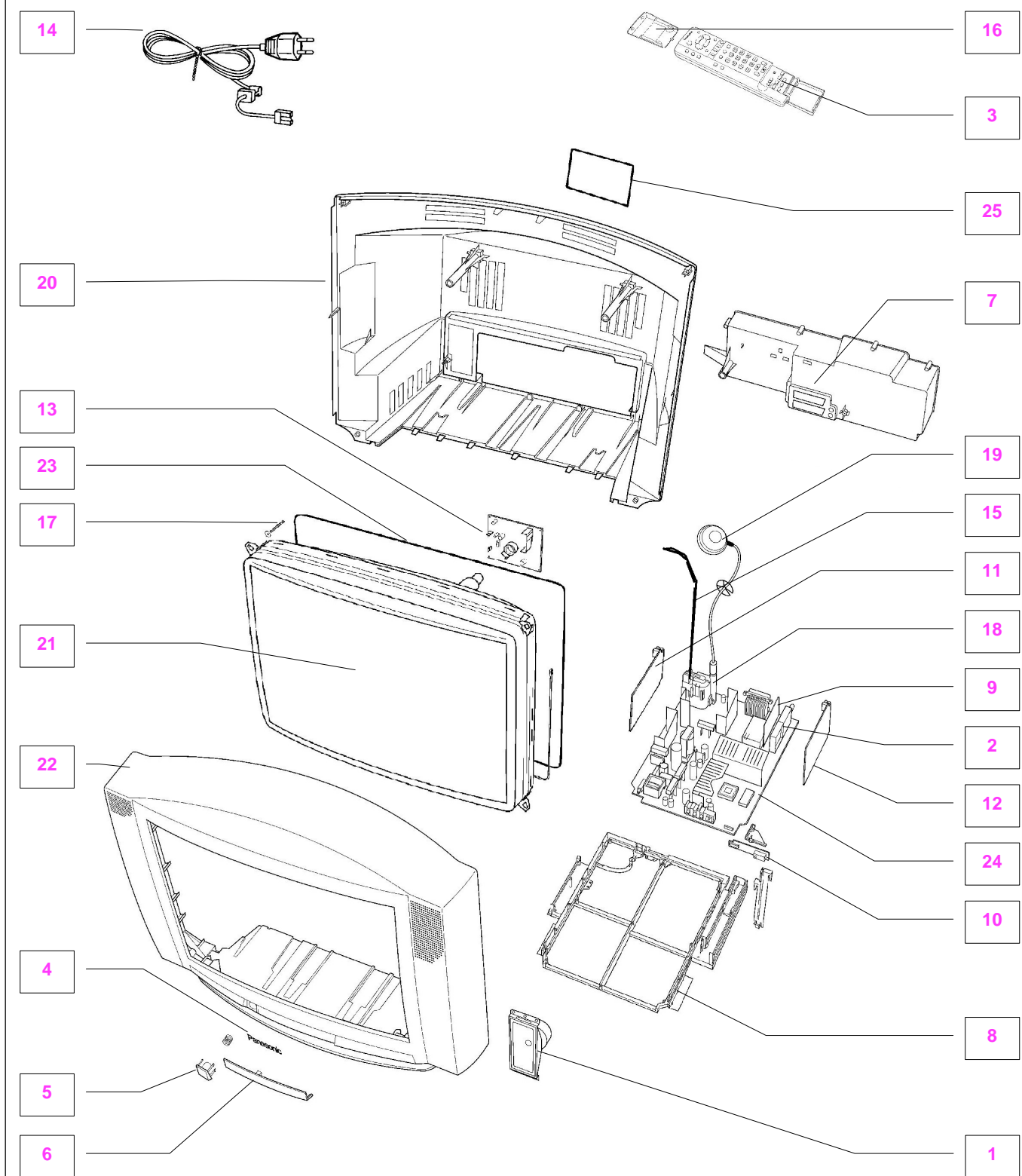
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UBICAZIONE DEI COMPONENTI


NOTA:

I numeri all' interno del cerchio corrispondono ai numeri riportanti nell'elenco delle parti di ricambio.


















ELENCO PARTI DI RICAMBIO

Nota

Componenti contrassegnati  sono di sicurezza e devono essere sostituiti solo con quelli specificati.

* Quando ordinate questi ricambi, dovete assolutamente sempre riportare il modello esatto e completo del TV riportato nell'etichetta posteriore del televisore.

| Cct Ref | Parts Number | Description |
|---------------------------------|--------------|---|
| COMMON PARTS | | |
| MECHANICAL PARTS | | |
| 1 | EASG15S505A2 | SPEAKER |
| 2 | ENG27507GR | TUNER  |
| 3 | EUR511211 | REMOTE CONTROL |
| 4 | TBM8E1929 | PANASONIC BADGE |
| 5 | TBX8E050 | POWER BUTTON |
| 6 | TKP8E1223 | DOOR LID |
| 7 | TKP8E1296-1 | REAR AV PANEL |
| 8 | TMX8E042 | CHASSIS FRAME |
| 9 | TNP8EF007AA | F P.C.B.  |
| 10 | TNP8EN016AA | N P.C.B.  |
| 11 | TNP8EP017AA | P P.C.B.  |
| 12 | TNP8EW002AA | W P.C.B.  |
| 13 | TNP8EY018AA | Y P.C.B.  |
| 14 | TSX8E0027 | POWER CORD  |
| 15 | TXJ/FCODEG | FOCUS LEAD ASSY  |
| 16 | UR51EC904A | BATTERY COVER (REMOTE) |
| 17 | VP17005-32 | CRT FIXING SCREW |
| 18 | ZTFM05008A | F.B.T.  |
| 19 | ZTUZAE550A | ANODE LEAD  |
| MISCELLANEOUS COMPONENTS | | |
| | 31221212478 | FIX CLIP |
| | 832AG11D-ESL | IC SOCKET |
| | F9-4-220 | RELAY |
| | TBM8E1615 | PRESET LABEL |
| | TEK6940 | LID CATCH |
| | TES8E015 | POWER BUTTON SPRING |
| | TMW8E027 | LED HOLDER |
| | UM-3DJ-2P | BATTERY PACK |
| IC1101 | PCSZT-084A-1 | IC SOCKET |
| PCH2 | TMX8E041 | PCB BRACKET |
| PCH3 | TMX8E041 | PCB BRACKET |
| R802 | 232266296706 | THERMISTOR  |
| INSTRUCTION BOOKS | | |
| | TQB8E2892A-2 | GERMAN  |
| | TQB8E2892B-2 | DUTCH  |
| | TQB8E2892C-2 | ITALIAN  |
| I.C.s | | |
| IC251 | LA4282 | AUDIO OUTPUT |
| IC351 | TDA6111Q-N4 | RGB OUTPUT |
| IC361 | TDA6111Q-N4 | RGB OUTPUT |
| IC371 | TDA6111Q-N4 | RGB OUTPUT |
| IC381 | TL431CLPM | REGULATOR |
| IC451 | LA7876N | VERTICAL OUTPUT |
| IC601 | TEA2114 | VIDEO SWITCHING |

| Cct Ref | Parts Number | Description |
|---------------|--------------|--|
| IC701 | TEA2031A | E/W CORRECTION |
| IC801 | STRF6654LF57 | POWER SUPPLY |
| IC850 | SE140N | ERROR AMPLIFIER |
| IC851 | L78M12MRB | 12V REGULATOR |
| IC853 | AN78L08TA | 8V REGULATOR |
| IC855 | BA033T-M3 | REGULATOR |
| IC856 | AN7805LB | 5V REGULATOR |
| IC1071 | RPM6937-V4 | LED RECEIVER |
| IC1101 | SDA5450C59 | MICRO PROCESSOR |
| IC1102 | 27C2001-M04 | EPROM |
| IC1104 | MN1381-R(TA) | RESET |
| IC1105 | MN1381-T(TA) | RESET |
| IC1501 | VPC3215CB8TP | VIDEO PROCESSOR |
| IC1502 | CIP3250APSB1 | C.I.P. |
| IC1503 | SDA9401 | MICRO PROCESSOR |
| IC1504 | DDP3310BPSD3 | VIDEO PROCESSOR |
| IC2101 | MSP3400CPOC8 | AUDIO PROCESSOR |
| FUSES | | |
| F801 | 19181-3.15 | FUSE  |
| F8011 | EYF52BC | FUSE HOLDER |
| F8012 | EYF52BC | FUSE HOLDER |
| DIODES | | |
| D251 | MA2180BLFS | DIODE |
| D253 | MA700TA5 | DIODE |
| D254 | MA700TA5 | DIODE |
| D351 | ERA15-04V3 | DIODE |
| D352 | ERA15-04V3 | DIODE |
| D361 | ERA15-04V3 | DIODE |
| D362 | ERA15-04V3 | DIODE |
| D371 | ERA15-04V3 | DIODE |
| D372 | ERA15-04V3 | DIODE |
| D376 | MA165TA5 | DIODE |
| D377 | MA165TA5 | DIODE |
| D378 | MA165TA5 | DIODE |
| D387 | MA2160LFS | DIODE |
| D453 | MA165TA5 | DIODE |
| D454 | EU02 | DIODE |
| D456 | MTZJT-775.6C | DIODE |
| D457 | MA165TA5 | DIODE |
| D458 | EU02 | DIODE |
| D501 | MA165TA5 | DIODE |
| D502 | 1SR124-4AT82 | DIODE |
| D511 | MA4047 | DIODE |
| D553 | 1SR124-4AT82 | DIODE |
| D554 | 1SR124-4AT82 | DIODE |
| D556 | MA165TA5 | DIODE |
| D557 | TVSRU2AMLFA5 | DIODE |
| D558 | EU02 | DIODE |
| D560 | RH3GLF102 | DIODE |
| D580 | FMV-3GULF730 | DIODE |
| D602 | MA4051 | DIODE |
| D603 | MA165TA5 | DIODE |

| Cct Ref | Parts Number | Description |
|--------------------|--------------|---------------|
| D604 | MA165TA5 | DIODE |
| D609 | 1SR124-4AT82 | DIODE |
| D617 | MA3068MTX | DIODE |
| D620 | MA165TA5 | DIODE |
| D701 | MA165TA5 | DIODE |
| D702 | MTZJT-775.1C | DIODE |
| D704 | MA29TA5 | DIODE |
| D705 | MTZJT776.2B | DIODE |
| D706 | MA165TA5 | DIODE |
| D707 | AU02V0 | DIODE |
| D708 | MA165TA5 | DIODE |
| D709 | MTZJT-778.2C | DIODE |
| D710 | MTZJT-7716C | DIODE |
| D801 | RBV-608LF-B | DIODE |
| D803 | 1SR124-4AT82 | DIODE |
| D804 | 1SR124-4AT82 | DIODE |
| D805 | TLP621GR-LF2 | PHOTO COUPLER |
| D806 | 1SR124-4AT82 | DIODE |
| D850 | RU4BLF-L1 | DIODE |
| D851 | MTZJT776.2B | DIODE |
| D852 | MA165TA5 | DIODE |
| D853 | MA2180BLFS | DIODE |
| D854 | TVSRU3AMLFA5 | DIODE |
| D855 | D10SC6MRL | DIODE |
| D856 | RU4AMLF-M1 | DIODE |
| D857 | MTZJT-775.1A | DIODE |
| D858 | MA165TA5 | DIODE |
| D859 | MA165TA5 | DIODE |
| D861 | MA165TA5 | DIODE |
| D862 | MTZJT-7736A | DIODE |
| D863 | MA165TA5 | DIODE |
| D865 | MA165TA5 | DIODE |
| D866 | MA165TA5 | DIODE |
| D867 | EK06-V0 | DIODE |
| D868 | 1N4150T-77 | DIODE |
| D869 | 1N4150T-77 | DIODE |
| D870 | MA165TA5 | DIODE |
| D871 | 1N4150T-77 | DIODE |
| D873 | MTZJT-775.6C | DIODE |
| D874 | 1SR124-4AT82 | DIODE |
| D875 | BZX79A75A26A | DIODE |
| D890 | MA165TA5 | DIODE |
| D891 | MA165TA5 | DIODE |
| D901 | 1SS254T-77 | DIODE |
| D902 | 1SS254T-77 | DIODE |
| D903 | 1SS254T-77 | DIODE |
| D910 | R2KNLFA1 | DIODE |
| D1071 | SLR56UR3FS | LED |
| D1072 | MTZJT-778.2C | DIODE |
| D1101 | MA165TA5 | DIODE |
| D1131 | MTZJT-775.6C | DIODE |
| D2101 | MA723TA5 | DIODE |
| D2102 | MA723TA5 | DIODE |
| D2103 | MA723TA5 | DIODE |
| D2104 | MA723TA5 | DIODE |
| D2105 | MTZJT-778.2C | DIODE |
| D2303 | MA723TA5 | DIODE |
| D2304 | MA723TA5 | DIODE |
| D3101 | MTZJT-778.2C | DIODE |
| D3102 | MTZJT-778.2C | DIODE |
| D3351 | 1SS254T-77 | DIODE |
| D3352 | MA165TA5 | DIODE |
| D3353 | MA165TA5 | DIODE |
| D3354 | MA165TA5 | DIODE |
| TRANSISTORS | | |
| Q101 | BC847B | TRANSISTOR |

| Cct Ref | Parts Number | Description |
|---------------------|--------------|-------------|
| Q102 | BC847B | TRANSISTOR |
| Q104 | BC847B | TRANSISTOR |
| Q105 | BC847B | TRANSISTOR |
| Q251 | 2SD1328STX | TRANSISTOR |
| Q252 | 2SD1328STX | TRANSISTOR |
| Q253 | BC847B | TRANSISTOR |
| Q254 | BC847B | TRANSISTOR |
| Q351 | 2SA1767 | TRANSISTOR |
| Q361 | 2SA1767 | TRANSISTOR |
| Q371 | 2SA1767 | TRANSISTOR |
| Q451 | BC857B | TRANSISTOR |
| Q503 | 2SK2962TPE6 | TRANSISTOR |
| Q551 | 2SC5144LB228 | TRANSISTOR |
| Q552 | 2SC1473-RN | TRANSISTOR |
| Q601 | BC847B | TRANSISTOR |
| Q701 | BC857B | TRANSISTOR |
| Q702 | BC847B | TRANSISTOR |
| Q850 | 2SD2396K-M3 | TRANSISTOR |
| Q851 | BC857B | TRANSISTOR |
| Q852 | 2SD1858TV2 | TRANSISTOR |
| Q853 | BC847B | TRANSISTOR |
| Q854 | BC847B | TRANSISTOR |
| Q855 | BC847B | TRANSISTOR |
| Q856 | BC847B | TRANSISTOR |
| Q857 | 2SA1018QTA | TRANSISTOR |
| Q905 | BC847B | TRANSISTOR |
| Q906 | BC847B | TRANSISTOR |
| Q907 | BC857B | TRANSISTOR |
| Q908 | 2SA1535ARLB | TRANSISTOR |
| Q909 | 2SC3944ARLB | TRANSISTOR |
| Q1051 | BC847B | TRANSISTOR |
| Q1052 | BC847B | TRANSISTOR |
| Q1104 | BC847B | TRANSISTOR |
| Q1105 | BC847B | TRANSISTOR |
| Q1106 | BC847B | TRANSISTOR |
| Q1107 | BC847B | TRANSISTOR |
| Q1108 | BC847B | TRANSISTOR |
| Q1501 | BC847B | TRANSISTOR |
| Q1502 | BC857B | TRANSISTOR |
| Q1503 | BC847B | TRANSISTOR |
| Q1504 | BC847B | TRANSISTOR |
| Q1505 | BC857B | TRANSISTOR |
| Q1506 | BC847B | TRANSISTOR |
| Q1507 | BC847B | TRANSISTOR |
| Q1508 | BC857B | TRANSISTOR |
| Q1509 | BC847B | TRANSISTOR |
| Q1510 | BC847B | TRANSISTOR |
| Q1511 | BC857B | TRANSISTOR |
| Q1512 | BC847B | TRANSISTOR |
| Q1513 | BC847B | TRANSISTOR |
| Q2101 | BC857B | TRANSISTOR |
| Q2102 | BC857B | TRANSISTOR |
| Q2103 | BC857B | TRANSISTOR |
| Q2301 | BC847B | TRANSISTOR |
| Q2302 | BC857B | TRANSISTOR |
| Q2303 | BC847B | TRANSISTOR |
| Q2304 | BC857B | TRANSISTOR |
| Q3006 | BC847B | TRANSISTOR |
| Q3007 | BC847B | TRANSISTOR |
| Q3352 | BC857B | TRANSISTOR |
| TRANSFORMERS | | |
| T501 | ETH19Y193AY | TRANSFORMER |
| T801 | ETS42AE296AD | TRANSFORMER |
| T802 | ETP35KAN619U | TRANSFORMER |
| COILS | | |
| J26 | EXCELDR35V | COIL |

| Cct Ref | Parts Number | Description |
|---------|--------------|-------------|
| L104 | EXCELSA35T | COIL |
| L106 | TLTACT100K | COIL |
| L107 | TLTACT6R8K | COIL |
| L114 | ELJFC2R2KF | COIL |
| L115 | ELJFC2R2KF | COIL |
| L301 | TLTACT4R7K | COIL |
| L353 | TLT150K991R | COIL |
| L363 | TLT100K991R | COIL |
| L373 | TLT150K991R | COIL |
| L381 | TLT220K991R | COIL |
| L451 | EXCELSA35T | COIL |
| L501 | EXCELSA35T | COIL |
| L581 | ELHKLB026B | COIL |
| L582 | ELC18B271E | COIL |
| L583 | ELC18B150L | COIL |
| L584 | ELHKLB025B | COIL |
| L586 | EXCELD35C | COIL |
| L606 | ELESN100KA | COIL |
| L701 | ELC18B271E | COIL |
| L704 | ELC10D332E | COIL |
| L705 | EXCELD35V | COIL |
| L850 | EXCELSA35T | COIL |
| L851 | EXCELSA35T | COIL |
| L852 | ELEIE470KA | COIL |
| L855 | EXCELSA35T | COIL |
| L856 | EXCELSA39V | COIL |
| L910 | EXCELSA35T | COIL |
| L911 | EXCELSA35T | COIL |
| L912 | EXCELSA35T | COIL |
| L1103 | TLTACT100K | COIL |
| L1104 | EXCELSA35T | COIL |
| L1105 | ELJFC2R2KF | COIL |
| L1501 | ELESN2R2KA | COIL |
| L1502 | ELESN2R2KA | COIL |
| L1503 | ELESN2R2KA | COIL |
| L1504 | ELESN2R2KA | COIL |
| L1505 | ELESN100KA | COIL |
| L1506 | ELESN100KA | COIL |
| L1507 | ELESNR22KA | COIL |
| L1508 | ELESNR22KA | COIL |
| L1509 | ELESN100KA | COIL |
| L1510 | ELESN100KA | COIL |
| L1514 | ELESN100KA | COIL |
| L1515 | ELESNR39KA | COIL |
| L1516 | ELESN4R7KA | COIL |
| L1517 | ELESN4R7KA | COIL |
| L1518 | ELESN4R7KA | COIL |
| L1519 | ELESNR39KA | COIL |
| L1520 | ELESN2R2KA | COIL |
| L1521 | ELESN1R0KA | COIL |
| L1522 | ELESN2R2KA | COIL |
| L1523 | ELESN2R2KA | COIL |
| L1524 | ELESN2R2KA | COIL |
| L1525 | ELESN100KA | COIL |
| L1526 | ELESN100KA | COIL |
| L1527 | ELESN100KA | COIL |
| L1528 | ELESN100KA | COIL |
| L1529 | ELESN100KA | COIL |
| L1530 | EXCELD35V | COIL |
| L2101 | TLTACT100K | COIL |
| L2103 | EXCELSA35T | COIL |
| L2104 | TLTACT4R7K | COIL |
| L3001 | ELEMV1R5MA | COIL |
| L3002 | ELEMV1R5MA | COIL |
| L3003 | ELEMV1R5MA | COIL |
| L3004 | ELEMV1R5MA | COIL |

| Cct Ref | Parts Number | Description |
|------------------|--------------|-----------------------|
| L3101 | ELEBT6R8KA | COIL |
| L3102 | ELEBT6R8KA | COIL |
| FILTERS | | |
| L802 | ELF18N012A | LINE FILTER |
| L804 | ELF18N012A | LINE FILTER |
| CRYSTALS | | |
| Q703 | IRF644R | CRYSTAL |
| X1101 | TSSA121 | CRYSTAL |
| X1501 | 4730007267 | CRYSTAL |
| X1502 | 4730007341 | CRYSTAL |
| X2101 | 4730007158 | CRYSTAL |
| RESISTORS | | |
| C101 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| C510 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA1 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA2 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA3 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA4 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA5 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA6 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA7 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA8 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA9 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA10 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA12 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA13 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA14 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA15 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA16 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA17 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA18 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA19 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA20 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA101 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA102 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA103 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA104 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA105 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA106 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA107 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA108 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA109 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA110 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA111 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA112 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA113 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA114 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA115 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA116 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA117 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA118 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA119 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA200 | ERJ8GEY0R00 | S.M.CARB .125W 5% 0 Ω |
| JA201 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JA202 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE3 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE4 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE5 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE6 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE10 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE12 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE18 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE22 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE26 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |
| JSE33 | ERJ6GEY0R00 | S.M.CARB 0.1W 5% 0 Ω |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|-----|---------|
| JSE35 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE42 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE43 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE45 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSE46 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSE47 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSF1 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSF2 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSF3 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSY04 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| Q1101 | ERD25TC0T | CARBON | 0.25W | 5% | 0 Ω |
| R101 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R102 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R103 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R104 | ERJ6GEYJ332 | S.M.CARB | 0.1W | 5% | 3K3 Ω |
| R105 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R106 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω |
| R107 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R111 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R112 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R113 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R116 | ERJ6GEYJ562 | S.M.CARB | 0.1W | 5% | 5K6 Ω |
| R117 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R118 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R120 | ERJ6GEYJ332 | S.M.CARB | 0.1W | 5% | 3K3 Ω |
| R121 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R251 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R252 | ERJ6GEYJ272 | S.M.CARB | 0.1W | 5% | 2K7 Ω |
| R253 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R254 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R255 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R256 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R257 | ERJ6GEYJ470 | S.M.CARB | 0.1W | 5% | 47 Ω |
| R258 | ERJ6GEYJ272 | S.M.CARB | 0.1W | 5% | 2K7 Ω |
| R259 | ERJ6GEYJ470 | S.M.CARB | 0.1W | 5% | 47 Ω |
| R260 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R261 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R262 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R263 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω |
| R264 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R265 | ERD25TJ2R2 | CARBON | 0.25W | 5% | 2R2 Ω |
| R266 | ERD25TJ2R2 | CARBON | 0.25W | 5% | 2R2 Ω |
| R267 | ERF7ZK4R7 | WOUND | 7W | 10% | 4R7 Ω ▲ |
| R268 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R269 | ERQ14AJ101 | METAL | 0.25W | 5% | 100 Ω ▲ |
| R271 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R272 | ERF7ZK4R7 | WOUND | 7W | 10% | 4R7 Ω ▲ |
| R350 | ERQ12AJ151P | FUSIBLE | 0.5W | 5% | 150 Ω ▲ |
| R352 | ERJ6GEYJ202 | S.M.CARB | 0.1W | 5% | 2K Ω |
| R355 | ERG1ANJ683 | METAL | 1W | 5% | 68K Ω |
| R356 | ERJ6GEYJ181 | S.M.CARB | 0.1W | 5% | 180 Ω |
| R357 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R358 | ERDS1TJ821 | CARBON | 0.5W | 5% | 820 Ω |
| R359 | ERD25TC0T | CARBON | 0.25W | 5% | 0 Ω |
| R360 | ERO50PKF8251 | METAL | 0.5W | 5% | 8M2 Ω ▲ |
| R362 | ERJ6GEYJ202 | S.M.CARB | 0.1W | 5% | 2K Ω |
| R365 | ERG1ANJ683 | METAL | 1W | 5% | 68K Ω |
| R366 | ERJ6GEYJ181 | S.M.CARB | 0.1W | 5% | 180 Ω |
| R367 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R368 | ERDS1TJ821 | CARBON | 0.5W | 5% | 820 Ω |
| R369 | ERD25TC0T | CARBON | 0.25W | 5% | 0 Ω |
| R372 | ERJ6GEYJ202 | S.M.CARB | 0.1W | 5% | 2K Ω |
| R375 | ERG1ANJ683 | METAL | 1W | 5% | 68K Ω |
| R376 | ERJ6GEYJ181 | S.M.CARB | 0.1W | 5% | 180 Ω |
| R377 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R378 | ERDS1TJ821 | CARBON | 0.5W | 5% | 820 Ω |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|-----|---------|
| R379 | ERD25TC0T | CARBON | 0.25W | 5% | 0 Ω |
| R385 | ERQ12HJ1R2 | METAL | 0.5W | 5% | 1R2 Ω ▲ |
| R394 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R396 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R398 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R451 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R452 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R453 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R454 | ERJ6GEYJ393 | S.M.CARB | 0.1W | 5% | 39K Ω |
| R455 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R456 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω |
| R457 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R458 | ERDS1TJ1R0 | CARBON | 0.5W | 5% | 1 Ω |
| R459 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R460 | ERG3SJS151 | METAL | 3W | 5% | 150 Ω |
| R461 | ERX2SJS1R2H | FUSIBLE | 2W | 5% | 1R2 Ω |
| R463 | ERD25TJ222 | CARBON | 0.25W | 5% | 2K2 Ω |
| R464 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R465 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R467 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R502 | ERJ6GEYJ511 | S.M.CARB | 0.1W | 5% | 510 Ω |
| R503 | ERJ6GEYJ105 | S.M.CARB | 0.1W | 5% | 1M Ω |
| R507 | ERG2ANJ330 | METAL | 2W | 5% | 33 Ω |
| R509 | ERG1SJ222E | METAL | 0.5W | 5% | 2K2 Ω |
| R510 | ERG1SJ222E | METAL | 0.5W | 5% | 2K2 Ω |
| R551 | ERX3SJSR33 | METAL | 3W | 5% | R33 Ω |
| R555 | ERQ12HKR82 | FUSIBLE | 0.5W | 10% | R82 Ω ▲ |
| R558 | ERDS1TJ124 | CARBON | 0.5W | 5% | 120K Ω |
| R559 | ERQ12HKR82 | FUSIBLE | 0.5W | 10% | R82 Ω ▲ |
| R560 | ERJ6GEYJ274 | S.M.CARB | 0.1W | 5% | 270K Ω |
| R561 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R563 | ERJ6GEYJ824 | S.M.CARB | 0.1W | 5% | 820K Ω |
| R564 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω |
| R566 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω |
| R567 | ERF7ZK1R0 | WOUND | 7W | 10% | 1 Ω ▲ |
| R568 | ERDS1TJ120 | CARBON | 0.5W | 5% | 12 Ω |
| R581 | ERQ2CJP821 | METAL | 2W | 5% | 820 Ω ▲ |
| R582 | ERG3FJ471 | METAL | 3W | 5% | 470 Ω ▲ |
| R583 | ERG3FJ331 | METAL | 3W | 5% | 330 Ω ▲ |
| R603 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R604 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R605 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R606 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R607 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R608 | ERJ6GEYJ201 | S.M.CARB | 0.1W | 5% | 200 Ω |
| R609 | ERJ6GEYJ201 | S.M.CARB | 0.1W | 5% | 200 Ω |
| R610 | ERJ6GEYJ242 | S.M.CARB | 0.1W | 5% | 2K4 Ω |
| R611 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω |
| R612 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R620 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R622 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R647 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R648 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R650 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R701 | ERQ12AJ330P | METAL | 0.5W | 5% | 330 Ω ▲ |
| R702 | ERX2SJS2R7 | FUSIBLE | 2W | 5% | 2R7 Ω |
| R703 | ERG2FJ821 | METAL | 2W | 5% | 820 Ω ▲ |
| R704 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω |
| R705 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω |
| R706 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R707 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R708 | ERJ6GEYJ393 | S.M.CARB | 0.1W | 5% | 39K Ω |
| R709 | ERJ6GEYJ393 | S.M.CARB | 0.1W | 5% | 39K Ω |
| R710 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω |
| R711 | ERG1SJ101 | METAL | 1W | 5% | 100 Ω |
| R712 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |

| Cct Ref | Parts Number | Description | | | | |
|---------|--------------|-------------|-------|-----|--------|---|
| R714 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R715 | ERD25TJ272 | CARBON | 0.25W | 5% | 2K7 Ω | |
| R716 | ERQ12AJ680P | METAL | 0.5W | 5% | 68 Ω | △ |
| R718 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R719 | ERJ6GEYJ224 | S.M.CARB | 0.1W | 5% | 220K Ω | |
| R720 | ERJ6GEYJ105 | S.M.CARB | 0.1W | 5% | 1M Ω | |
| R721 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω | |
| R722 | ERDS1TJ751 | CARBON | 0.5W | 5% | 750 Ω | |
| R801 | ERC12ZGK335D | SOLID | 0.5W | 10% | 3M3 Ω | |
| R805 | ERD25TJ473 | CARBON | 0.25W | 5% | 47K Ω | |
| R806 | ERD25TJ100 | CARBON | 0.25W | 5% | 10 Ω | |
| R807 | ERD25TJ332 | CARBON | 0.25W | 5% | 3K3 Ω | |
| R809 | ERD25TJ681 | CARBON | 0.25W | 5% | 680 Ω | |
| R810 | ERW2PKR27 | WOUND | 2W | 10% | R27 Ω | △ |
| R811 | ERW2PKR27 | WOUND | 2W | 10% | R27 Ω | △ |
| R812 | ERD75TAJ825 | CARBON | 0.75W | 5% | 8M2 Ω | △ |
| R813 | ERF7ZK2R7 | WOUND | 7W | 20% | 2R7 Ω | △ |
| R814 | ERD25TJ473 | CARBON | 0.25W | 5% | 47K Ω | |
| R815 | ERD25TJ222 | CARBON | 0.25W | 5% | 2K2 Ω | |
| R850 | ERD25TJ122 | CARBON | 0.25W | 5% | 1K2 Ω | |
| R852 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R853 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω | |
| R854 | ERG2FJ223 | METAL | 2W | 5% | 22K Ω | △ |
| R855 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | |
| R857 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | |
| R858 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω | |
| R859 | ERJ6GEYJ753 | S.M.CARB | 0.1W | 5% | 7K5 Ω | |
| R860 | ERQ1CJP2R2 | FUSIBLE | 1W | 10% | 2R2 Ω | △ |
| R861 | ERD25TJ221 | CARBON | 0.25W | 5% | 220 Ω | |
| R862 | ERD25TJ272 | CARBON | 0.25W | 5% | 2K7 Ω | |
| R863 | ERDS1TJ560 | CARBON | 0.5W | 5% | 56 Ω | |
| R864 | ERDS1TJ151 | CARBON | 0.5W | 5% | 150 Ω | |
| R865 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R867 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R868 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R869 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R870 | ERJ6GEYJ272 | S.M.CARB | 0.1W | 5% | 2K7 Ω | |
| R871 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω | |
| R872 | ERG1SJ183 | METAL | 1W | 5% | 18K Ω | |
| R873 | ERG1SJ223 | METAL | 1W | 5% | 22K Ω | |
| R874 | ERD25TJ104 | CARBON | 0.25W | 5% | 100K Ω | |
| R876 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R877 | ERW2PKR47 | WOUND | 2W | 10% | R47 Ω | △ |
| R878 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | |
| R879 | ERG3FJ680H | METAL | 3W | 5% | 68 Ω | △ |
| R880 | ERG5FJ120H | METAL | 5W | 5% | 12 Ω | △ |
| R890 | ERX1FJ3R9P | FUSIBLE | 1W | 5% | 3R9 Ω | △ |
| R913 | ERJ6GEYJ183 | S.M.CARB | 0.1W | 5% | 18K Ω | |
| R914 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R915 | ERJ6GEYJ182 | S.M.CARB | 0.1W | 5% | 1K8 Ω | |
| R916 | ERJ6GEYJ221 | S.M.CARB | 0.1W | 5% | 220 Ω | |
| R917 | ERJ6GEYJ121 | S.M.CARB | 0.1W | 5% | 120 Ω | |
| R918 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R919 | ERQ14AJW390 | FUSIBLE | 0.25W | 5% | 39 Ω | △ |
| R920 | ERQ14AJW390 | FUSIBLE | 0.25W | 5% | 39 Ω | △ |
| R922 | ERD25TJ683 | CARBON | 0.25W | 5% | 68K Ω | |
| R923 | ERD25TJ683 | CARBON | 0.25W | 5% | 68K Ω | |
| R924 | ERDS1FYJ390 | CARBON | 0.5W | 5% | 39 Ω | △ |
| R925 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R926 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R927 | ERD25TJ122 | CARBON | 0.25W | 5% | 1K2 Ω | |
| R928 | ERD25TJ5R6 | CARBON | 0.25W | 5% | 5R6 Ω | |
| R929 | ERDS1FVJ471 | RESISTOR | 0.5W | 5% | 470 Ω | △ |
| R931 | ERDS1FYJ390 | CARBON | 0.5W | 5% | 39 Ω | △ |
| R935 | ERQ14AJW3R9 | FUSIBLE | 0.25W | 5% | 3R9 Ω | △ |
| R936 | ERQ1CJP102 | FUSIBLE | 1W | 5% | 1K Ω | △ |

| Cct Ref | Parts Number | Description | | | | |
|---------|--------------|-------------|-------|----|--------|---|
| R937 | ERQ14AJW100 | FUSIBLE | 0.25W | 5% | 10 Ω | △ |
| R938 | ERD25TJ122 | CARBON | 0.25W | 5% | 1K2 Ω | |
| R941 | ERD25TJ5R6 | CARBON | 0.25W | 5% | 5R6 Ω | |
| R1051 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1052 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1053 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1054 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1071 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | |
| R1101 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1102 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1103 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | |
| R1104 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω | |
| R1105 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1106 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | |
| R1107 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω | |
| R1108 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω | |
| R1109 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1110 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1111 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1112 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | |
| R1113 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1115 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1116 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1117 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1118 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1119 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1120 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1121 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1123 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1125 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1126 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1127 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1128 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω | |
| R1129 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω | |
| R1130 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1131 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1132 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1133 | ERJ6GEYJ272 | S.M.CARB | 0.1W | 5% | 2K7 Ω | |
| R1136 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | |
| R1137 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1138 | ERJ6GEYJ105 | S.M.CARB | 0.1W | 5% | 1M Ω | |
| R1139 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1140 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1141 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω | |
| R1145 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1146 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1147 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1148 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1149 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R1151 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1152 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1156 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1157 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1158 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | |
| R1159 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | |
| R1160 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω | |
| R1161 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω | |
| R1162 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R1163 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω | |
| R1164 | ERJ6GEYJ332 | S.M.CARB | 0.1W | 5% | 3K3 Ω | |
| R1165 | ERJ6GEYJ512 | S.M.CARB | 0.1W | 5% | 5K1 Ω | |
| R1166 | ERJ6GEYJ912 | S.M.CARB | 0.1W | 5% | 9K1 Ω | |
| R1167 | ERJ6GEYJ100 | S.M.CARB | 0.1W | 5% | 10 Ω | |
| R1168 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω | |
| R1169 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω | |
| R1170 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27K Ω | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|------|----|--------|
| R1171 | ERJ6GEYJ224 | S.M.CARB | 0.1W | 5% | 220K Ω |
| R1172 | ERJ6GEYJ223 | S.M.CARB | 0.1W | 5% | 22K Ω |
| R1173 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω |
| R1174 | ERJ6GEYJ221 | S.M.CARB | 0.1W | 5% | 220 Ω |
| R1175 | ERJ6GEYJ225 | S.M.CARB | 0.1W | 5% | 2M2 Ω |
| R1178 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1501 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1502 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1504 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1505 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1506 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1507 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1508 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1509 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1510 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1511 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1512 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1513 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1514 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R1515 | ERJ6GEYJ752 | S.M.CARB | 0.1W | 5% | 7K5 Ω |
| R1517 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1521 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1522 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R1523 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω |
| R1524 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1525 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1526 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R1527 | ERJ6GEYJ122 | S.M.CARB | 0.1W | 5% | 1K2 Ω |
| R1528 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1529 | ERJ6GEYJ122 | S.M.CARB | 0.1W | 5% | 1K2 Ω |
| R1530 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1531 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1532 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R1533 | ERJ6GEYJ122 | S.M.CARB | 0.1W | 5% | 1K2 Ω |
| R1534 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1535 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R1536 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R1537 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R1538 | ERJ6GEYJ331 | S.M.CARB | 0.1W | 5% | 330 Ω |
| R1539 | ERJ6GEYJ271 | S.M.CARB | 0.1W | 5% | 270 Ω |
| R1540 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R1541 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1542 | ERJ6GEYJ152 | S.M.CARB | 0.1W | 5% | 1K5 Ω |
| R1543 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1544 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1545 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1546 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1547 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1548 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1549 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1550 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1551 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1552 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1553 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1554 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1555 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1556 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1557 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1558 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1559 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1560 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1561 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1562 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1563 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1564 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1565 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|----|--------|
| R1566 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1567 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1568 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1569 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1570 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1571 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1572 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1573 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1574 | ERJ6GEYJ682 | S.M.CARB | 0.1W | 5% | 6K8 Ω |
| R1575 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R1577 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1578 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1579 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1580 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1584 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R1585 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R1586 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R2101 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2102 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2103 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2109 | ERJ6GEYJ183 | S.M.CARB | 0.1W | 5% | 18K Ω |
| R2110 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R2111 | ERJ6GEYJ221 | S.M.CARB | 0.1W | 5% | 220 Ω |
| R2112 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R2113 | ERJ6GEYJ562 | S.M.CARB | 0.1W | 5% | 5K6 Ω |
| R2114 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2115 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R2116 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2117 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2118 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R2119 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2120 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R2302 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω |
| R2303 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2304 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R2305 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R2306 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2308 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω |
| R2309 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2310 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R2311 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R2312 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3001 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3002 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R3003 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3004 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3005 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3006 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R3007 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3008 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3010 | ERD25TJ750 | CARBON | 0.25W | 5% | 75 Ω |
| R3013 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3014 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R3015 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3016 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3017 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3018 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R3019 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3020 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3021 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |
| R3046 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3047 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3048 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3049 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3050 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3057 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω |

| Cct Ref | Parts Number | Description | | | |
|-------------------|--------------|-------------|------|----|---------------------|
| R3101 | ERDS1TJ151 | CARBON | 0.5W | 5% | 150 Ω |
| R3102 | ERDS1TJ151 | CARBON | 0.5W | 5% | 150 Ω |
| R3103 | ERG2FJ221 | METAL | 2W | 5% | 220 Ω [△] |
| R3104 | ERG2FJ221 | METAL | 2W | 5% | 220 Ω [△] |
| R3105 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3106 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3107 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3108 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R3354 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R3355 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R3356 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω |
| R3357 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω |
| R3358 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω |
| R3360 | ERDS1TJ471 | CARBON | 0.5W | 5% | 470 Ω |
| R3361 | ERO50PKF1133 | METAL | 0.5W | 5% | 110K Ω [△] |
| R3362 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3363 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3364 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R3601 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3602 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R3603 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| RL801 | TSE1885-1 | RELAY | | | Ω |
| CAPACITORS | | | | | |
| C102 | ECUV1H103ZFX | S.M. CAP | 50V | | 10nF |
| C103 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C106 | ECUV1H560JXC | S.M. CAP | 50V | | 56pF |
| C107 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C108 | ECA1CM100GB | ELECT | 16V | | 10μF |
| C109 | ECUV1H102JXC | S.M. CAP | 50V | | 1nF |
| C110 | ECUV1H103ZFX | S.M. CAP | 50V | | 10nF |
| C111 | ECA1HMR33GB | ELECT | 50V | | 0.33μF |
| C117 | ECUV1H103ZFX | S.M. CAP | 50V | | 10nF |
| C118 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C119 | ECA1CM102B | ELECT | 16V | | 1000μF |
| C120 | ECA1CM221GB | ELECT | 16V | | 220μF |
| C121 | ECUV1H561KBX | S.M. CAP | 50V | | 560pF |
| C122 | ECUV1H102KBX | S.M. CAP | 50V | | 1nF |
| C123 | ECUV1H102KBX | S.M. CAP | 50V | | 1nF |
| C124 | ECUV1H220JXC | S.M. CAP | 50V | | 22pF |
| C125 | ECUV1H100DCX | S.M. CAP | 50V | | 10pF |
| C251 | ECA1EM330B | ELECT | 25V | | 33μF |
| C252 | ECUV1H472KBX | S.M. CAP | 50V | | 4.7nF |
| C253 | ECA1HM4R7GB | ELECT | 50V | | 4.7μF |
| C254 | ECQM1H684J | FILM | 50V | | 680nF |
| C255 | ECA1EM101GB | ELECT | 25V | | 100μF |
| C256 | ECUV1H472KBX | S.M. CAP | 50V | | 4.7nF |
| C257 | ECA1HM4R7GB | ELECT | 50V | | 4.7μF |
| C258 | ECA1EM330B | ELECT | 25V | | 33μF |
| C259 | ECQM1H684J | FILM | 50V | | 680nF |
| C260 | ECA1VM102GB | ELECT | 35V | | 1nF |
| C261 | ECA1VM102GB | ELECT | 35V | | 1nF |
| C262 | ECQM1H334J | FILM | 50V | | 330nF |
| C263 | ECA1HM010GB | ELECT | 50V | | 1μF |
| C264 | ECA1HHG222E | ELECT | 50V | | 2200μF |
| C265 | ECQM1H334J | FILM | 50V | | 330nF |
| C266 | ECA1HM010GB | ELECT | 50V | | 1μF |
| C267 | ECJ2VB1H104K | ELECT | 350V | | 100nF |
| C268 | ECJ2VB1H104K | ELECT | 350V | | 100nF |
| C270 | ECJ2VB1H104K | ELECT | 350V | | 100nF |
| C352 | ECUV1H224ZFX | S.M. CAP | 50V | | 220nF |
| C353 | ECUV1H104KBX | S.M. CAP | 50V | | 100nF |
| C354 | ECQM2104KZ | FILM | 250V | | 100nF |
| C355 | ECKC2H102J | CERAMIC | 500V | | 1nF [△] |
| C358 | ECUV1H222JXC | S.M. CAP | 50V | | 2.2nF |
| C362 | ECUV1H224ZFX | S.M. CAP | 50V | | 220nF |
| C363 | ECUV1H104KBX | S.M. CAP | 50V | | 100nF |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|--|--------------------|
| C364 | ECQM2104KZ | FILM | 250V | | 100nF |
| C365 | ECKC2H102J | CERAMIC | 500V | | 1nF [△] |
| C368 | ECUV1H222JXC | S.M. CAP | 50V | | 2.2nF |
| C369 | ECUV1H220JXC | S.M. CAP | 50V | | 22pF |
| C372 | ECUV1H224ZFX | S.M. CAP | 50V | | 220nF |
| C373 | ECUV1H104KBX | S.M. CAP | 50V | | 100nF |
| C374 | ECQM2104KZ | FILM | 250V | | 100nF |
| C375 | ECKC2H102J | CERAMIC | 500V | | 1nF [△] |
| C378 | ECUV1H222JXC | S.M. CAP | 50V | | 2.2nF |
| C381 | ECA1HM101GB | ELECT | 50V | | 100μF |
| C382 | ECA1CM471GB | ELECT | 16V | | 470μF |
| C383 | ECUV1H103KBX | S.M. CAP | 50V | | 10nF |
| C384 | ECQM2104KZ | FILM | 250V | | 100nF |
| C385 | ECA2EM220B | ELECT | 250V | | 22μF |
| C386 | ECKC3D152J | CERAMIC | 2KV | | 1.5nF [△] |
| C395 | ECQM1H104J | FILM | 50V | | 100nF |
| C396 | ECJ2VF1H104Z | ELECT | 350V | | 100nF |
| C451 | ECUV1H102JX | S.M. CAP | 50V | | 1nF |
| C453 | ECUV1H152KBX | S.M. CAP | 50V | | 1.5pF |
| C454 | ECQV1H105JZ | FILM | 50V | | 1μF |
| C455 | ECA1HM100GB | ELECT | 50V | | 10μF |
| C456 | ECA1HHG221B | ELECT | 50V | | 220μF |
| C459 | ECQB1224KFW | FILM | 100V | | 220nF |
| C463 | ECEA1HU221 | ELECT | 50V | | 220μF |
| C508 | ECQB1H103J | FILM | 50V | | 10nF |
| C509 | ECA1VM470B | ELECT | 35V | | 47μF |
| C511 | ECQM2683JZ | FILM | 250V | | 68nF |
| C551 | ECKC3D561J | CERAMIC | 2KV | | 560pF [△] |
| C552 | ECWH15H102JN | FILM | 1500V | | 1nF |
| C557 | ECKC2H471J | CERAMIC | 500V | | 470pF [△] |
| C558 | ECA1HHG471E | ELECT | 50V | | 470μF |
| C561 | ECA1EHG102B | ELECT | 25V | | 1000μF |
| C562 | ECKC2H101J | CERAMIC | 500V | | 100pF [△] |
| C563 | ECA2EHG220B | ELECT | 250V | | 20μF |
| C564 | ECEA2AU2R2 | ELECT | 100V | | 2.2μF |
| C565 | ECQP1H273J | FILM | 100V | | 2700μF |
| C566 | ECKC2H471J | CERAMIC | 500V | | 470pF [△] |
| C567 | ECA1EHG102B | ELECT | 25V | | 1000μF |
| C568 | ECKC2H471J | CERAMIC | 500V | | 470pF [△] |
| C569 | ECKC2H102J | CERAMIC | 500V | | 1nF [△] |
| C581 | ECWF4684JBB | FILM | 400V | | 680nF |
| C582 | ECWF4684JBB | FILM | 400V | | 680nF |
| C583 | ECWH20562JVB | FILM | 200V | | 5.6nF |
| C584 | ECWH20562JVB | FILM | 200V | | 5.6nF |
| C586 | ECQF4123JZH | FILM | 400V | | 12nF [△] |
| C587 | ECQM4223KC | FILM | 400V | | 220nF |
| C608 | ECUV1H103KBX | S.M. CAP | 50V | | 10nF |
| C609 | ECUV1H270JXC | S.M. CAP | 50V | | 27pF |
| C623 | ECUV1H121JXC | S.M. CAP | 50V | | 120pF |
| C624 | ECUV1H121JXC | S.M. CAP | 50V | | 120pF |
| C625 | ECQM1H224J | FILM | 50V | | 220nF |
| C626 | ECA1CM100GB | ELECT | 16V | | 10μF |
| C627 | ECJ2VB1C104K | ELECT | 350V | | 100nF |
| C628 | ECQM1H224J | FILM | 50V | | 220nF |
| C701 | ECA1HHG101B | ELECT | 50V | | 100μF |
| C702 | ECUV1H103KBX | S.M. CAP | 50V | | 10nF |
| C703 | ECEA1HGE100 | ELECT | 50V | | 10μF |
| C704 | ECUV1H223KBX | S.M. CAP | 50V | | 22nF |
| C705 | ECQB1H102J | FILM | 50V | | 1nF |
| C709 | ECQV1H105JZ | FILM | 50V | | 1μF |
| C801 | ECQE2A474MWB | FILM | 250V | | 470nF |
| C804 | 222233510224 | FILM | 250V | | 220nF |
| C806 | ECKWNA101MBC | CERAMIC | 400V | | 100μF |
| C807 | ECKC2H472J | CERAMIC | 500V | | 4.7nF [△] |
| C808 | ECKC2H472J | CERAMIC | 500V | | 4.7nF [△] |
| C809 | ECKC2H472J | CERAMIC | 500V | | 4.7nF [△] |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|--------|---|
| C810 | ECKC2H472J | CERAMIC | 500V | 4.7nF | △ |
| C811 | ECOS2GA221CA | ELECT | 400V | 220μF | |
| C814 | ECKC3D102J | CERAMIC | 2KV | 1nF | △ |
| C815 | ECKC1H471J | CERAMIC | 50V | 470pF | |
| C816 | ECA1EM101GB | ELECT | 25V | 100μF | |
| C817 | ECQE6104K | FILM | 600V | 100nF | △ |
| C818 | ECKCNS332J | CERAMIC | 1.2KV | 3.3nF | △ |
| C819 | ECQB1H152K | FILM | 50V | 1.5nF | |
| C820 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C839 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C840 | ECJ2YB1H104K | ELECT | 350V | 100nF | |
| C841 | ECA1AM222B | ELECT | 10V | 2200μF | |
| C842 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C850 | ECKC3D471JB | CERAMIC | 2KV | 470pF | △ |
| C851 | ECA2CHG221E | ELECT | 160V | 220μF | |
| C852 | ECA2CHG101E | ELECT | 160V | 100μF | |
| C853 | ECKC2H471J | CERAMIC | 500V | 470pF | △ |
| C854 | ECA1EM102GB | ELECT | 25V | 100μF | |
| C855 | ECKC2H471J | CERAMIC | 500V | 470pF | △ |
| C856 | ECA1AHG332B | ELECT | 10V | 3.3nF | |
| C857 | ECKC2H471J | CERAMIC | 500V | 470pF | △ |
| C858 | ECEA1HGE102 | ELECT | 50V | 1000μF | |
| C859 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C860 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C862 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C863 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C866 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C867 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C868 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C869 | ECA1EM101GB | ELECT | 25V | 100μF | |
| C870 | ECA1EM471GB | ELECT | 25V | 470μF | |
| C871 | ECA1CM102B | ELECT | 16V | 1000μF | |
| C872 | ECA1CM471GB | ELECT | 16V | 470μF | |
| C873 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C875 | ECA2CM4R7B | ELECT | 160V | 10μF | |
| C876 | ECA1HHG101B | ELECT | 50V | 100μF | |
| C902 | ECA1VM101GB | ELECT | 35V | 100μF | |
| C904 | ECJ2VF1H103Z | ELECT | 350V | 10nF | |
| C906 | ECUV1H680JCX | S.M. CAP | 50V | 68pF | |
| C907 | ECUV1H121JCX | S.M. CAP | 50V | 120pF | |
| C908 | ECUV1H151JCX | S.M. CAP | 50V | 150pF | |
| C909 | ECKC2H472J | CERAMIC | 500V | 4.7nF | △ |
| C910 | ECKC2H472J | CERAMIC | 500V | 4.7nF | △ |
| C911 | ECUV1H151JCX | S.M. CAP | 50V | 150pF | |
| C912 | ECA2EM220B | ELECT | 250V | 22μF | |
| C913 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C914 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C916 | ECA2EM220B | ELECT | 250V | 22μF | |
| C917 | ECA1HM100GB | ELECT | 50V | 10μF | |
| C918 | ECJ2VF1H103Z | ELECT | 350V | 10nF | |
| C919 | ECCR2H270J | CERAMIC | 500V | 27pF | |
| C1071 | ECUV1H331JCX | S.M. CAP | 50V | 330pF | |
| C1072 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1073 | ECA1HM101GB | ELECT | 50V | 100μF | |
| C1101 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C1102 | ECA0JM101G | ELECT | 6.3V | 100μF | |
| C1103 | ECUV1H220JCX | S.M. CAP | 50V | 22pF | |
| C1104 | ECUV1H220JCX | S.M. CAP | 50V | 22pF | |
| C1105 | ECUV1H101JCX | S.M. CAP | 50V | 100pF | |
| C1108 | ECJ2VB1H333K | ELECT | 350V | 33nF | |
| C1111 | ECA1CM100GB | ELECT | 16V | 10μF | |
| C1112 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1115 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF | |
| C1116 | ECUV1H472KBX | S.M. CAP | 50V | 4.7nF | |
| C1117 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C1118 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|------|-------|--|
| C1119 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1120 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C1121 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1123 | ECUV1H471JCX | S.M. CAP | 50V | 470pF | |
| C1124 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1125 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1126 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C1127 | ECUV1H561JCX | S.M. CAP | 50V | 560pF | |
| C1129 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C1130 | ECA1CM221GB | ELECT | 16V | 220μF | |
| C1501 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1502 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1503 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1504 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1505 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1506 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1507 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1508 | ECUV1H271JCX | S.M. CAP | 50V | 270pF | |
| C1509 | ECQM1H684J | FILM | 50V | 680nF | |
| C1510 | ECQM1H684J | FILM | 50V | 680nF | |
| C1511 | ECQM1H684J | FILM | 50V | 680nF | |
| C1512 | ECQM1H684J | FILM | 50V | 680nF | |
| C1513 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C1514 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1515 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1516 | ECEA1CKA101 | ELECT | 16V | 100μF | |
| C1517 | ECJ2YB1H473K | ELECT | 350V | 47nF | |
| C1518 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1519 | ECUV1H050CCX | S.M. CAP | 50V | 50pF | |
| C1520 | ECUV1H050CCX | S.M. CAP | 50V | 50pF | |
| C1521 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1522 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1523 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1524 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1525 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1526 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1527 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1528 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1529 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1530 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1531 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1532 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1540 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF | |
| C1541 | ECJ2VB1H333K | ELECT | 350V | 33nF | |
| C1542 | ECJ2VB1H333K | ELECT | 350V | 33nF | |
| C1543 | ECJ2VB1C224K | ELECT | 350V | 220nF | |
| C1544 | ECJ2VB1H333K | ELECT | 350V | 33nF | |
| C1545 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1546 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1547 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1548 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1549 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1550 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1551 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1552 | ECUV1H103KBX | S.M. CAP | 50V | 10nF | |
| C1553 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1554 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1555 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1556 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C1557 | ECUV1H270JCX | S.M. CAP | 50V | 27pF | |
| C1558 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C1559 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1560 | ECEA1CKA100 | ELECT | 16V | 10μF | |
| C1561 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1562 | ECJ2VB1C104K | ELECT | 350V | 100nF | |
| C1563 | ECJ2VB1C104K | ELECT | 350V | 100nF | |

| Cct Ref | Parts Number | Description | | |
|---------|--------------|-------------|------|--------|
| C1564 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1566 | ECUV1H270JCX | S.M. CAP | 50V | 27pF |
| C1567 | ECEA1CKA100 | ELECT | 16V | 10µF |
| C1568 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1569 | ECEA1CKA100 | ELECT | 16V | 10µF |
| C1570 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1571 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1572 | ECEA1CKA100 | ELECT | 16V | 10µF |
| C1573 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1574 | ECEA1CKA100 | ELECT | 16V | 10µF |
| C1575 | ECEA1CKA100 | ELECT | 16V | 10µF |
| C1576 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1577 | ECUV1H270JCX | S.M. CAP | 50V | 27pF |
| C1578 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1579 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1580 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1581 | ECJ2VB1C224K | ELECT | 350V | 220nF |
| C1582 | ECJ2VB1C224K | ELECT | 350V | 220nF |
| C1583 | ECJ2VB1C224K | ELECT | 350V | 220nF |
| C1584 | ECJ2VB1C104K | ELECT | 350V | 100nF |
| C1585 | ECEA1CKA100 | ELECT | 16V | 10µF |
| C1586 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1587 | ECEA1CKA100 | ELECT | 16V | 10µF |
| C1588 | ECEA1CKA100 | ELECT | 16V | 10µF |
| C1589 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1590 | ECJ2VB1H103K | ELECT | 350V | 10nF |
| C1591 | ECEA1CKA100 | ELECT | 16V | 10µF |
| C1592 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C1594 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C1596 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C1598 | ECUV1H330JCX | S.M. CAP | 50V | 33pF |
| C1603 | ECKC1H271J | CERAMIC | 50V | 270pF |
| C2101 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2102 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2103 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2104 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2105 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2106 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2107 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2108 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2109 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2110 | ECUV1H102JCX | S.M. CAP | 50V | 1nF |
| C2111 | ECA1CM100GB | ELECT | 16V | 10µF |
| C2112 | ECA1CM100GB | ELECT | 16V | 10µF |
| C2113 | ECA1HM3R3GB | ELECT | 50V | 3.3µF |
| C2114 | ECJ2VF1H104Z | ELECT | 350V | 100nF |
| C2115 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2116 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2117 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2118 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2119 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2120 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2121 | ECA1CM100GB | ELECT | 16V | 10µF |
| C2122 | ECJ2VF1H104Z | ELECT | 350V | 100nF |
| C2123 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2124 | ECUV1H070DTX | S.M. CAP | 50V | 70pF |
| C2125 | ECUV1H470JCX | S.M. CAP | 50V | 47pF |
| C2126 | ECUV1H070DTX | S.M. CAP | 50V | 70pF |
| C2127 | ECUV1H010CCX | S.M. CAP | 50V | 1pF |
| C2128 | ECUV1H010CCX | S.M. CAP | 50V | 1pF |
| C2129 | ECA1CM102B | ELECT | 16V | 1000µF |
| C2130 | ECA1CM331B | ELECT | 16V | 330µF |
| C2134 | ECUV1H103ZFX | S.M. CAP | 50V | 10nF |
| C2135 | ECA1HM101GB | ELECT | 50V | 100µF |
| C2136 | ECJ2VF1H104Z | ELECT | 350V | 100nF |
| C2137 | ECA1CM100GB | ELECT | 16V | 10µF |


| Cct Ref | Parts Number | Description | | |
|---|---------------|---------------|-------|-------|
| C2138 | ECUV1H471K BX | S.M. CAP | 50V | 470pF |
| C2139 | ECUV1H221JCX | S.M. CAP | 50V | 220pF |
| C2140 | ECA1HM101GB | ELECT | 50V | 100µF |
| C2141 | ECUV1H152JCX | S.M. CAP | 50V | 1.5pF |
| C2301 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C2302 | ECA1CM470GB | ELECT | 16V | 47µF |
| C2303 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C2304 | ECA1CM470GB | ELECT | 16V | 47µF |
| C3001 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3002 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3003 | ECA1CM470GB | ELECT | 16V | 47µF |
| C3005 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3006 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF |
| C3007 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3008 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3009 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3010 | ECA1CM470GB | ELECT | 16V | 47µF |
| C3012 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3013 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF |
| C3014 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3015 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3016 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3017 | ECA1CM470GB | ELECT | 16V | 47µF |
| C3019 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3020 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF |
| C3021 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3022 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3023 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3024 | ECA1CM470GB | ELECT | 16V | 47µF |
| C3026 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3027 | ECJ3VB1C474K | ELECT | 3.5KV | 470nF |
| C3028 | ECUV1H222JCX | S.M. CAP | 50V | 2.2nF |
| C3030 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3031 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3032 | ECUV1H271JCX | S.M. CAP | 50V | 270pF |
| C3101 | ECUV1H104KBX | S.M. CAP | 50V | 100nF |
| C3102 | ECUV1E104KBX | S.M. CAP | 25V | 100nF |
| C3103 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3104 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3105 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3106 | ECUV1H561JCX | S.M. CAP | 50V | 560pF |
| C3107 | ECA1HM470GB | ELECT | 50V | 47µF |
| C3108 | ECA1HM470GB | ELECT | 50V | 47µF |
| C3111 | ECUV1H391JCX | S.M. CAP | 50V | 390pF |
| C3351 | ECA1CM221GB | ELECT | 16V | 220µF |
| TERMINALS AND LINKS | | | | |
| JK2301 | JPJ841101320 | RCA SOCKET | | |
| JK3001 | 0350808500 | SCART SOCKET | | |
| JK3101 | TJB16673 | A.V. TERMINAL | | |
| SWITCHES | | | | |
| S801 | ESB92S11B | SWITCH | | ▲ |
| S1201 | EVQ21405R | SWITCH | | |
| S1202 | EVQ21405R | SWITCH | | |
| S1203 | EVQ21405R | SWITCH | | |
| S1204 | EVQ21405R | SWITCH | | |
| S1205 | EVQ21405R | SWITCH | | |
| DIFFERENCES FOR MODEL TX-25LD20C | | | | |
| MECHANICAL PARTS | | | | |
| 20 | TKU8E00310 | BACK COVER | | ▲ |
| 21 | A59ECF50X82 | C.R.T. | | ▲ |
| 22 | TKY8E216 | CABINET | | ▲ |
| 23 | TLK8E05138 | DEGAUSS COIL | | ▲ |
| 24 | TNP8EE013AF | E P.C.B. | | ▲ |

| Cct Ref | Parts Number | Description | |
|---|--------------|----------------|---|
| 25 | TQF8E2930 | MODEL LABEL | △ |
| MISCELLANEOUS COMPONENTS | | | |
| | 927925-1 | EARTH CLAMPER | |
| | TPC8E4660-1 | OUTER CARTON | |
| | TPD8E657 | TOP CUSHION | |
| | TPD8E658 | BOTTOM CUSHION | |
| I.C.s | | | |
| IC1103 | XDG3-04LC | EAROM* | |
| DIFFERENCES FOR MODEL TX-28LD20C | | | |
| MECHANICAL PARTS | | | |
| 20 | TKU8E00320 | BACK COVER | △ |
| 21 | A66ECF50X82 | C.R.T. | △ |
| 22 | TKY8E309 | CABINET | △ |
| 23 | TLK8E05140 | DEGAUSS COIL | △ |
| 24 | TNP8EE013AE | E P.C.B. | △ |
| 25 | TQF8E2929 | MODEL LABEL | △ |
| MISCELLANEOUS COMPONENTS | | | |
| | TPC8E4659 | OUTER CARTON | |
| | TPD8E655 | TOP CUSHION | |
| | TPD8E656 | BOTTOM CUSHION | |
| I.C.s | | | |
| IC1103 | XDG2-04KC | EAROM* | |

| Cct Ref | Parts Number | Description |
|---------|--------------|-------------|
|---------|--------------|-------------|

SCHEMA ELETTRICO TX-28LD20C TX-25LD20C (TELAIO EURO-4H)

IMPORTANTI INFORMAZIONI DI SICUREZZA

I componenti indicati  con hanno caratteristiche speciali ed importante per la sicurezza. Qualore tali componenti vengano sostituity, devono essere usati solo quelli specificati dal costruttore.

Nota

1. RESISTENZE

Tutte le resistenze sono al carbone da 1/8W se sono contrassegnate come segue :
I valori sono espressi in OHM Ω K=1,000 M= 1,000,000.

2. CONDENSATORI

Tutti i condensatori sono ceramici 50V, se non sono contrassegnati come segue :
I valori sono espressi i μ F, se non diversamente specificato.

3. BOBINE

I valori sono espressi in μ H, se non diversamente specificato.
Il contrassegno "L" sullo schema elettrico indica la polarità.

4. TEST POINT



Posizione dei test point

5. MASSA



Massa Linea (Caldo)



Massa Telaio (Freddo)

6. CONTROLLI DI TENSIONE

Le tensioni sono misurate con voltmetro dc alle seguenti condizioni :

Alimentazione ac 220-240V, 50Hz

Segnale ricevuto Segnale a barre colori in (RF)

Controlli dell'utente Massime regolazioni

7. Indica il flusso di segnale principale.



VIDEO



AUDIO

8. Questo schema elettrico è soggetto a variazioni senza preavviso.

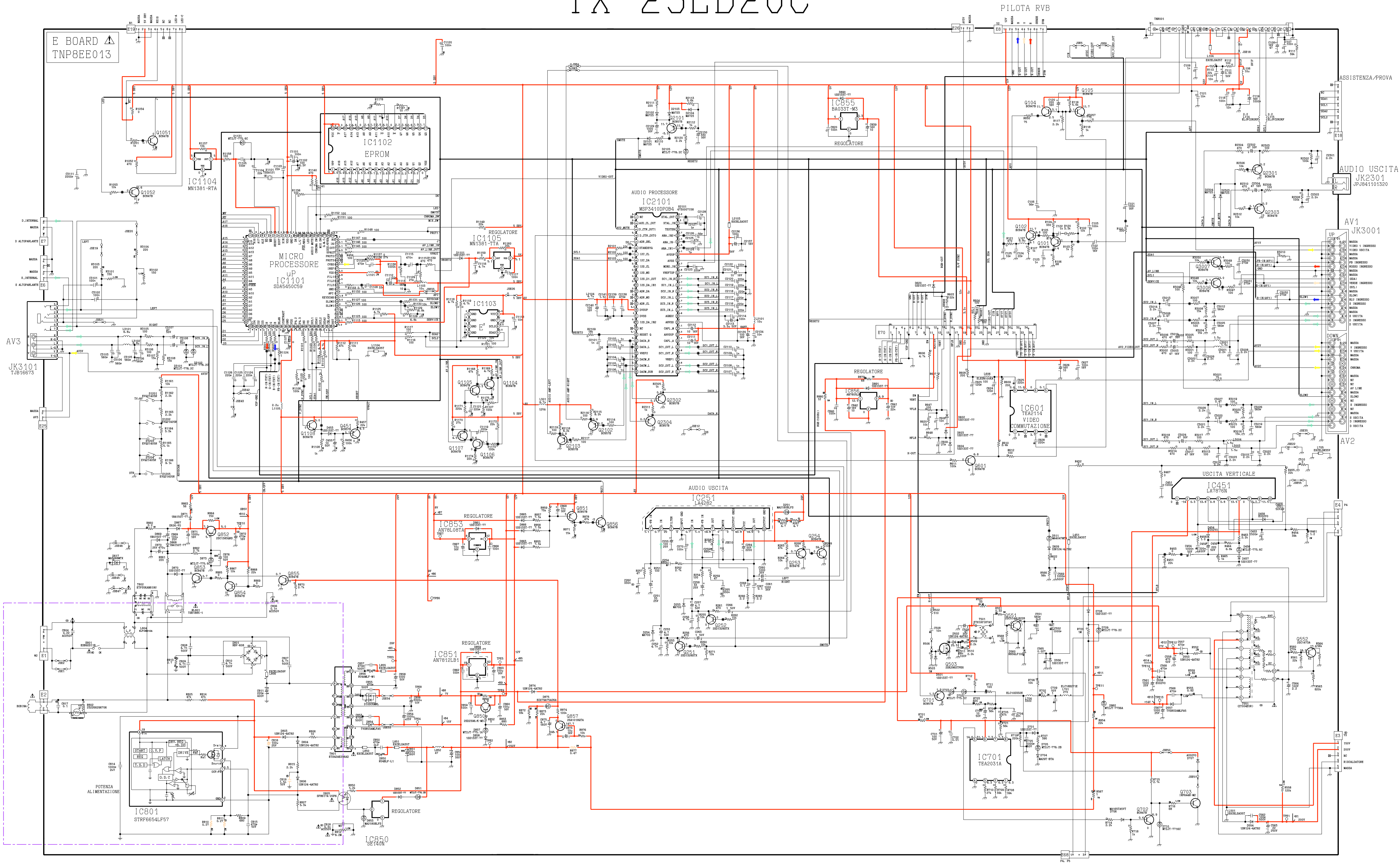
Precauzioni

- Nell' intendo di prevenire possibili scosse elettriche evitare di toccare le zone fredde e calde.
- Un corto circuito fra le due senzione può provocare anomalie nei componenti.
- Nell' utilizzo di uno strumento di misura la massa dello stesso deve essere collegata alla massa del circuito da misurare.
- Le resistenze sotto indicate sono componenti fusibili di sicurezza, e risultano differenziati per valori di corrente.

Nota

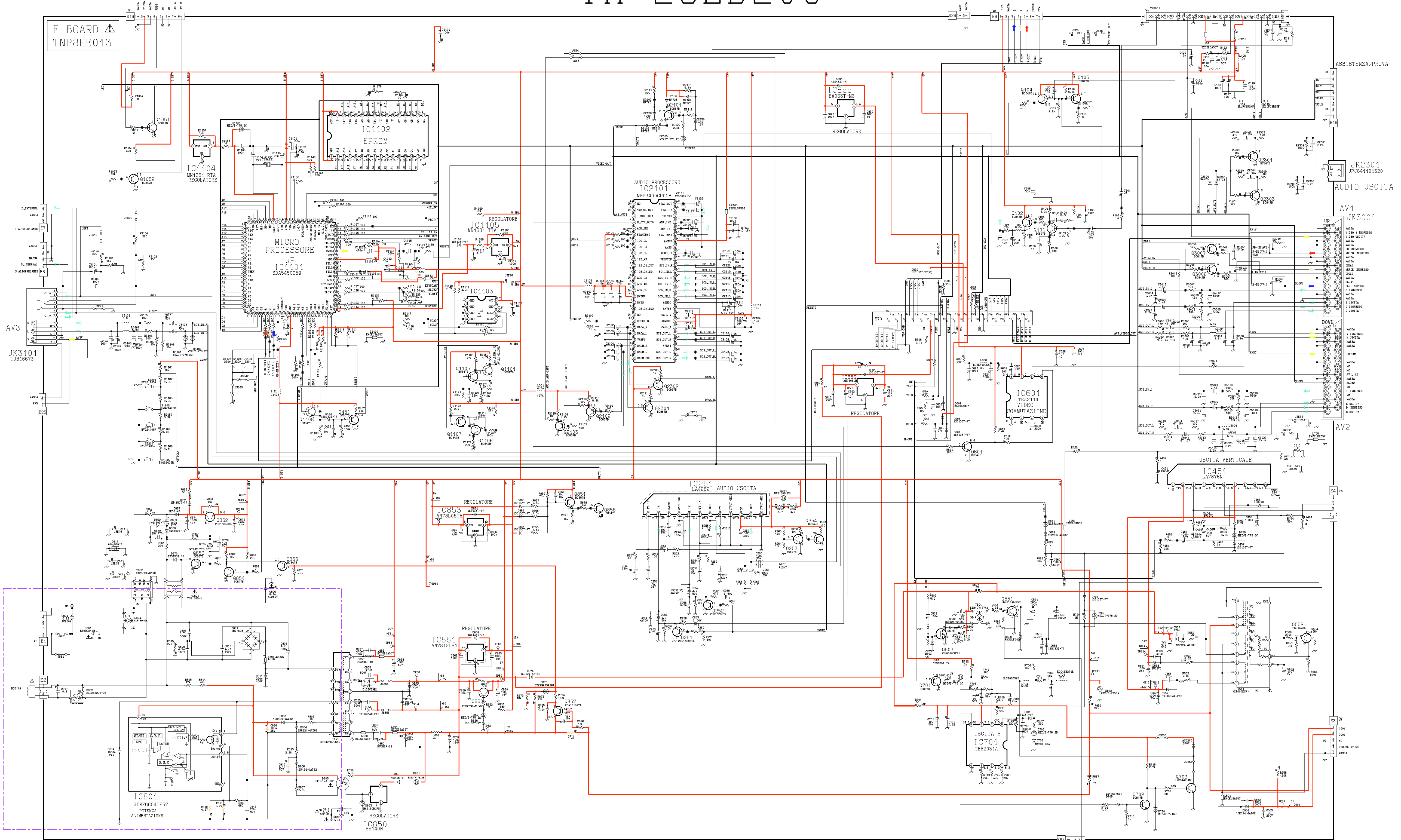
- Nel circuito di alimentazione è presente una sezione le cui tensioni risultano separata dalla massa generale del telaio. Sullo schema elettrico vengono define aree calda e fredda. Prestare particolare attenzione. Tutti i circuiti escludono quella di alimentazione sono freddi.

TX-25LD20C



TX-28LD20C

PILOTA RVB



ASSISTENZA/PROVA

AUDIO USCITA

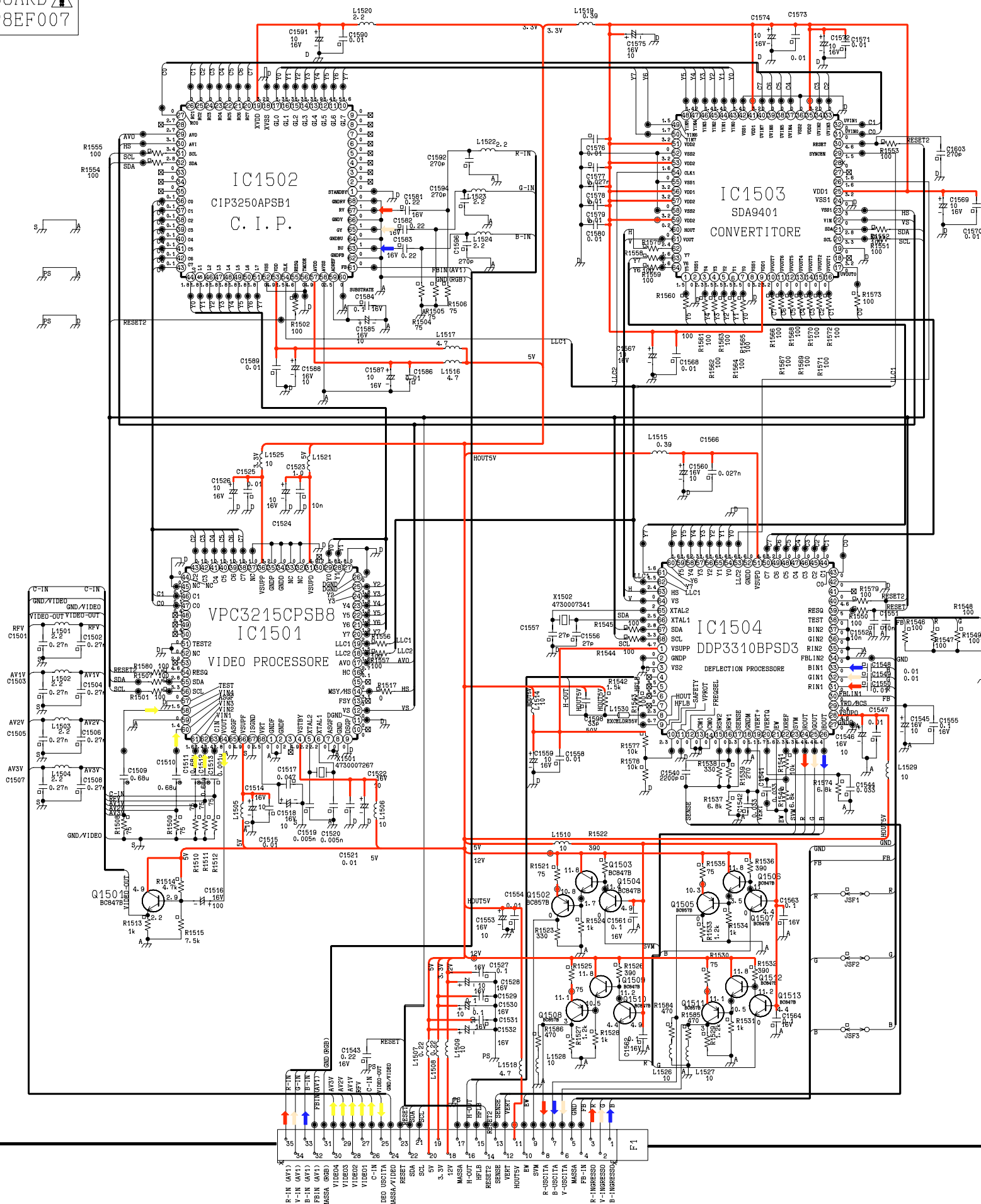
AV1 JK3001

AV2

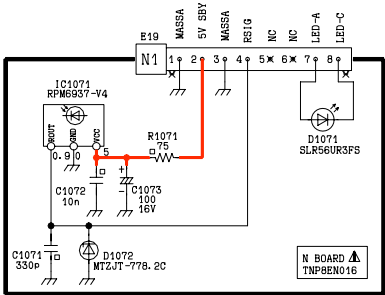
E4

E3

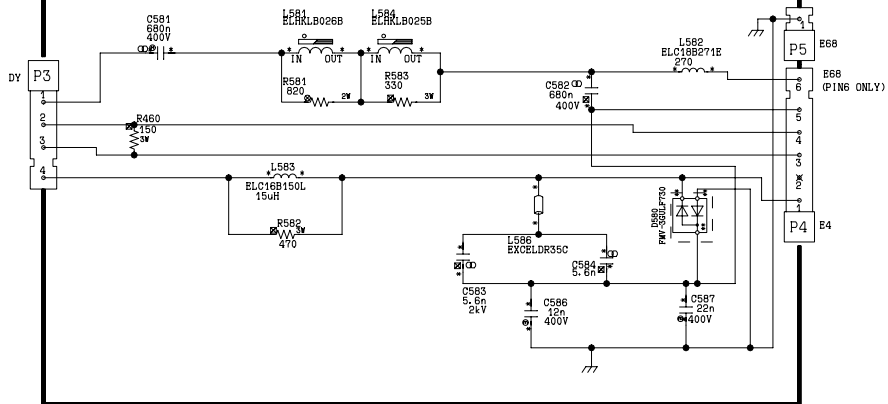
E6

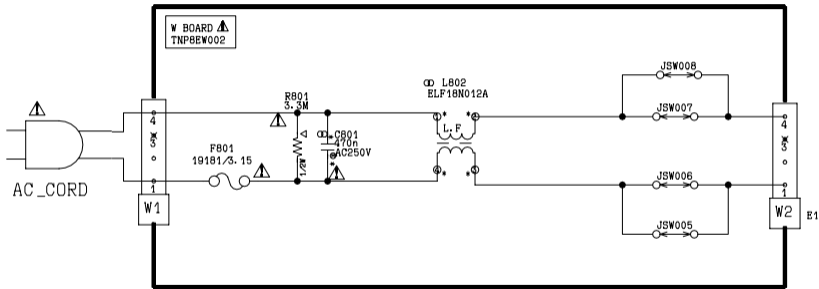


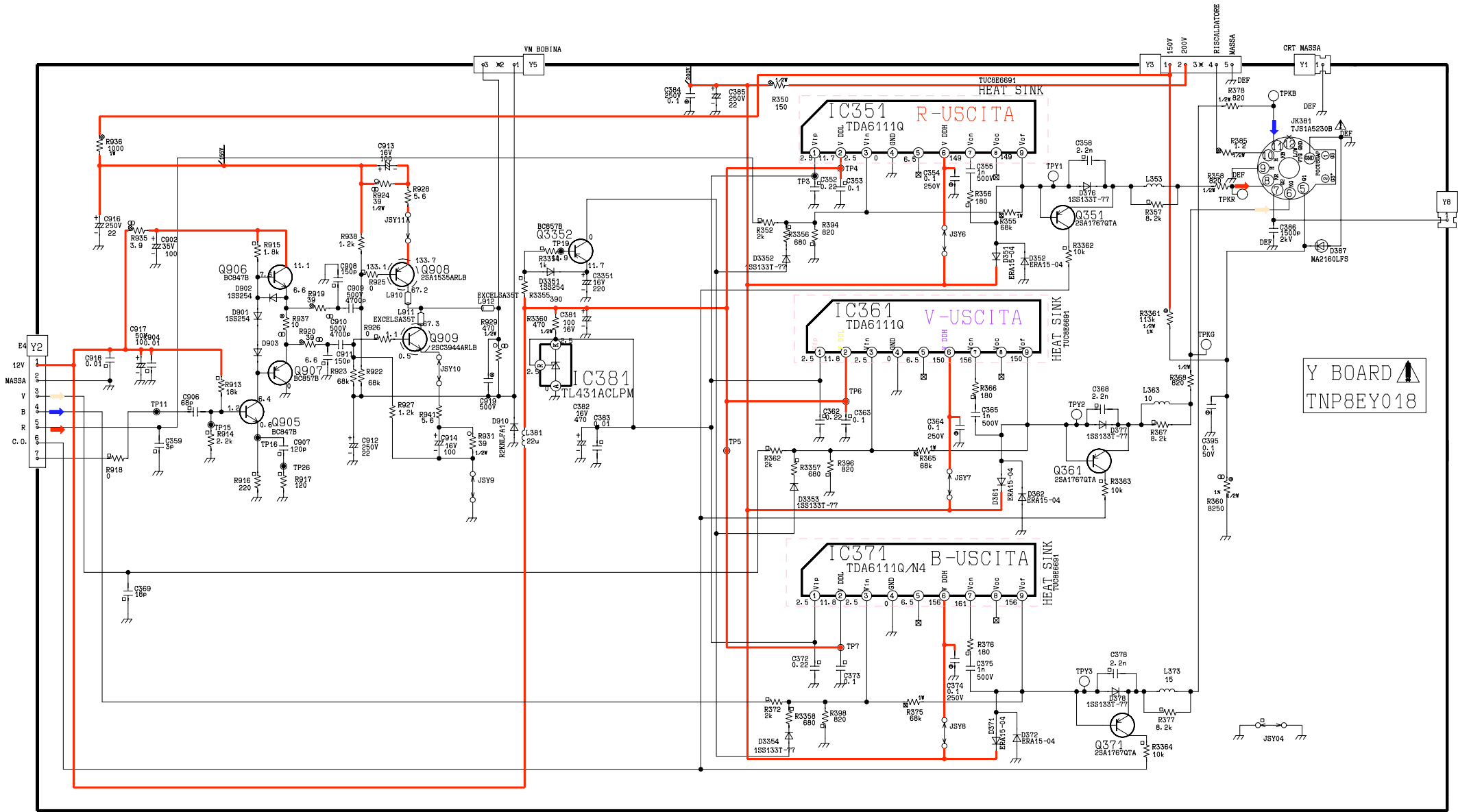
- Legend for connector F1:
- 35 R-IN (AV1)
 - 34 Y-IN (AV1)
 - 33 B-IN (AV1)
 - 32 FB-IN (AV1)
 - 31 MASSA (R5B)
 - 30 VIDEO4
 - 29 VIDEO3
 - 28 VIDEO2
 - 27 VIDEO1
 - 26 C-IN
 - 25 VIDEO USCITA
 - 24 MASSA/VIDEO
 - 23 RESET
 - 22 SCL
 - 21 3.3V
 - 20 12V
 - 19 MASSA
 - 18 HELIX
 - 17 HELIX
 - 16 RESET2
 - 15 SENSE
 - 14 VERT
 - 13 HOUT5V
 - 12 EV
 - 11 SVW
 - 10 R-USCITA
 - 9 B-USCITA
 - 8 Y-USCITA
 - 7 MASSA
 - 6 FB-IN
 - 5 R-INGRESSO
 - 4 V-INGRESSO
 - 3 B-INGRESSO



P BOARD ⚠
TNP8EP017





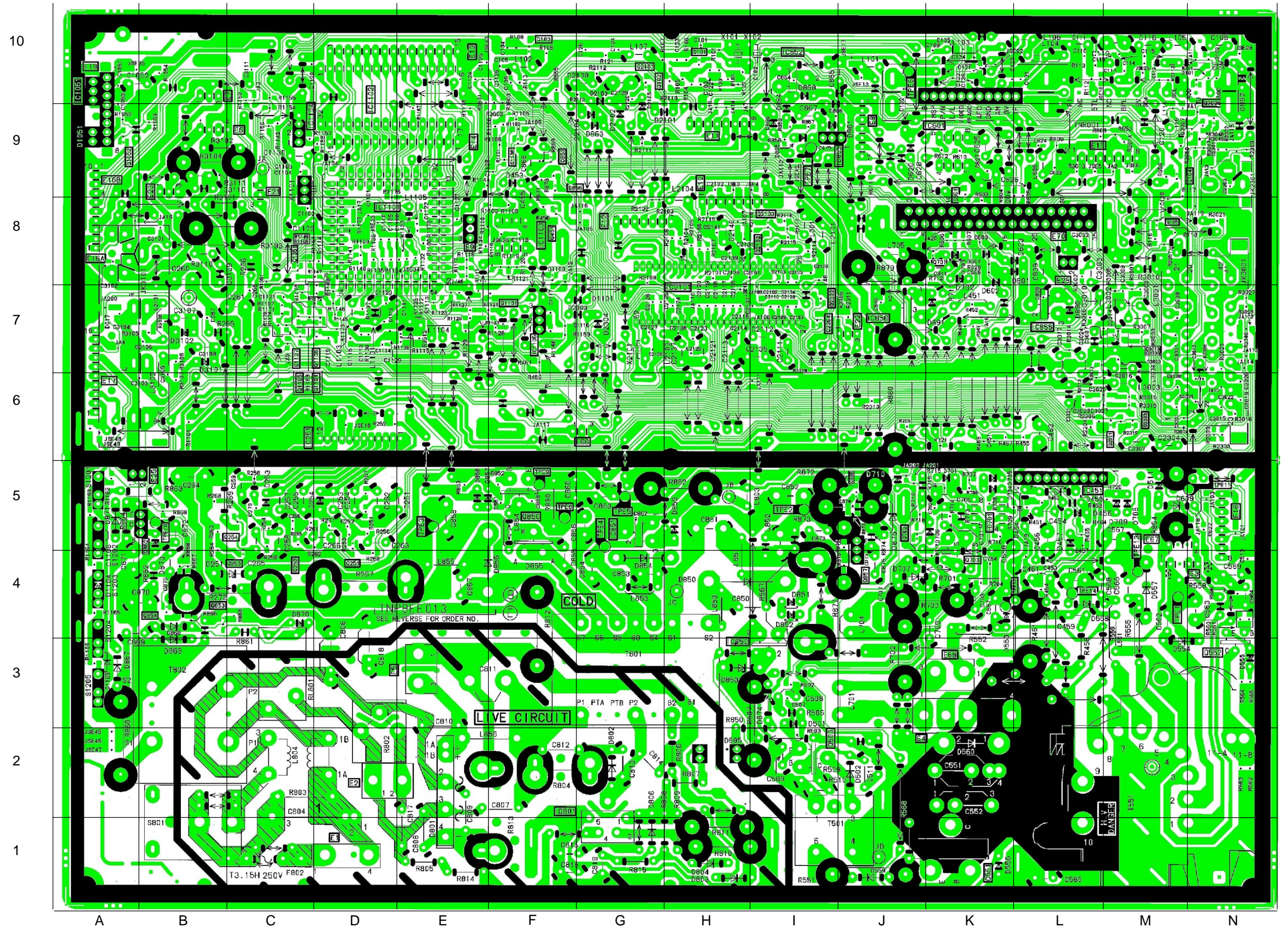


Y BOARD ⚠
TNP8EY018

VISTA LATO COMPONENTI

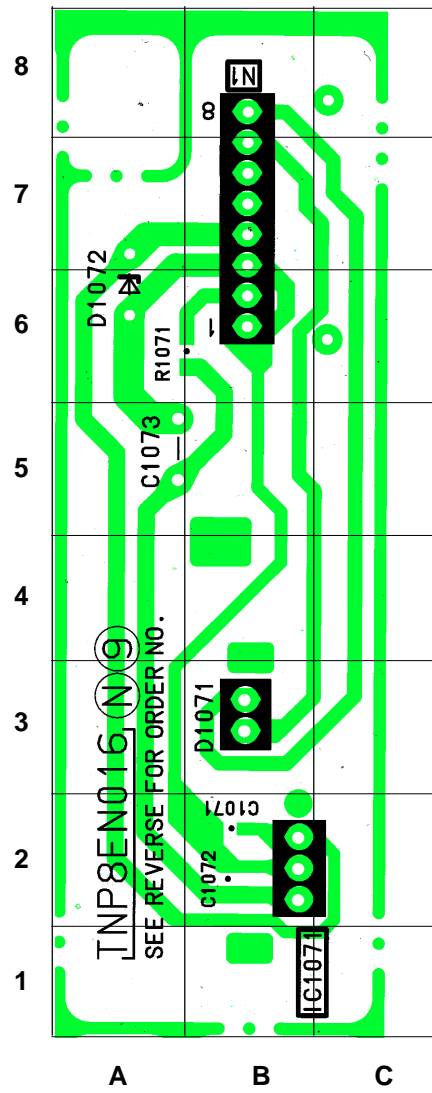
E-SCHEMA TNP8EE013

| TRAN'S | | DIODES | | | |
|------------|-----|--------|-----|--------|-----|
| Q101 | H10 | D1051 | A9 | D853 | H3 |
| Q103 | F10 | D1101 | G7 | D854 | G4 |
| Q104 | N9 | D1103 | F8 | D856 | F4 |
| Q105 | M8 | D1104 | A4 | D857 | E5 |
| Q1051 | C8 | D1105 | A3 | D858 | E5 |
| Q1052 | A9 | D1116 | G7 | D859 | H5 |
| Q1101 | F7 | D2101 | G9 | D860 | I10 |
| Q1104 | D6 | D2102 | G9 | D861 | J9 |
| Q1105 | C6 | D2103 | G10 | D862 | N10 |
| Q1106 | D7 | D2104 | G9 | D863 | G9 |
| Q1107 | C7 | D2105 | G9 | D864 | I9 |
| Q1108 | F9 | D2303 | G7 | D865 | I9 |
| Q182 | G10 | D2304 | G7 | D866 | I9 |
| Q2101 | G10 | D251 | D4 | D867 | A3 |
| Q2102 | I8 | D253 | C4 | D868 | B4 |
| Q2103 | I8 | D254 | B5 | D869 | B4 |
| Q2301 | M6 | D3101 | B7 | D870 | C4 |
| Q2302 | I7 | D3102 | B7 | D871 | A5 |
| Q2303 | M6 | D453 | F9 | D873 | B5 |
| Q2304 | I7 | D454 | L5 | D875 | J5 |
| Q251 | D4 | D456 | L5 | D890 | L7 |
| Q252 | C4 | D457 | L5 | D891 | K7 |
| Q253 | C4 | D458 | L5 | | |
| Q254 | C5 | D501 | I3 | | |
| Q3006 | N10 | D502 | J2 | | |
| ICs | | | | | |
| Q3007 | M9 | D511 | M5 | IC1051 | A10 |
| Q451 | F8 | D553 | K4 | IC1101 | D8 |
| Q503 | I2 | D554 | M3 | IC1102 | D10 |
| Q551 | K1 | D555 | N3 | IC1103 | F8 |
| Q552 | N3 | D556 | K1 | IC1104 | C9 |
| Q601 | K9 | D557 | M4 | IC1105 | F7 |
| Q701 | K8 | D558 | L4 | IC2101 | H8 |
| Q702 | J5 | D559 | J1 | IC251 | D6 |
| Q703 | K4 | D560 | K2 | IC451 | L5 |
| Q850 | F5 | D601 | K8 | IC601 | K9 |
| Q851 | F9 | D602 | K8 | IC701 | K5 |
| Q852 | B5 | D603 | K8 | IC801 | G2 |
| Q853 | B4 | D604 | K8 | IC850 | H4 |
| Q854 | B4 | D609 | M5 | IC851 | G5 |
| Q855 | J5 | D620 | J9 | IC852 | I10 |
| Q856 | F9 | D701 | K5 | IC853 | I9 |
| Q857 | J4 | D702 | K8 | IC855 | L7 |
| | | D703 | K8 | IC856 | J7 |
| | | D704 | K5 | | |
| | | D705 | K5 | | |
| TPs | | | | | |
| D706 | K5 | TPE1 | M4 | | |
| D707 | J4 | TPE10 | B5 | | |
| D708 | M5 | TPE11 | N5 | | |
| D709 | M5 | TPE12 | K4 | | |
| D710 | J5 | TPE13 | M4 | | |
| D801 | E1 | TPE14 | L4 | | |
| D802 | G2 | TPE2 | I5 | | |
| D803 | H1 | TPE3 | E5 | | |
| D804 | H1 | TPE4 | G5 | | |
| D805 | H2 | TPE5 | G5 | | |
| D806 | G2 | TPE6 | J10 | | |
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| D852 | I4 | TPE9 | F5 | | |



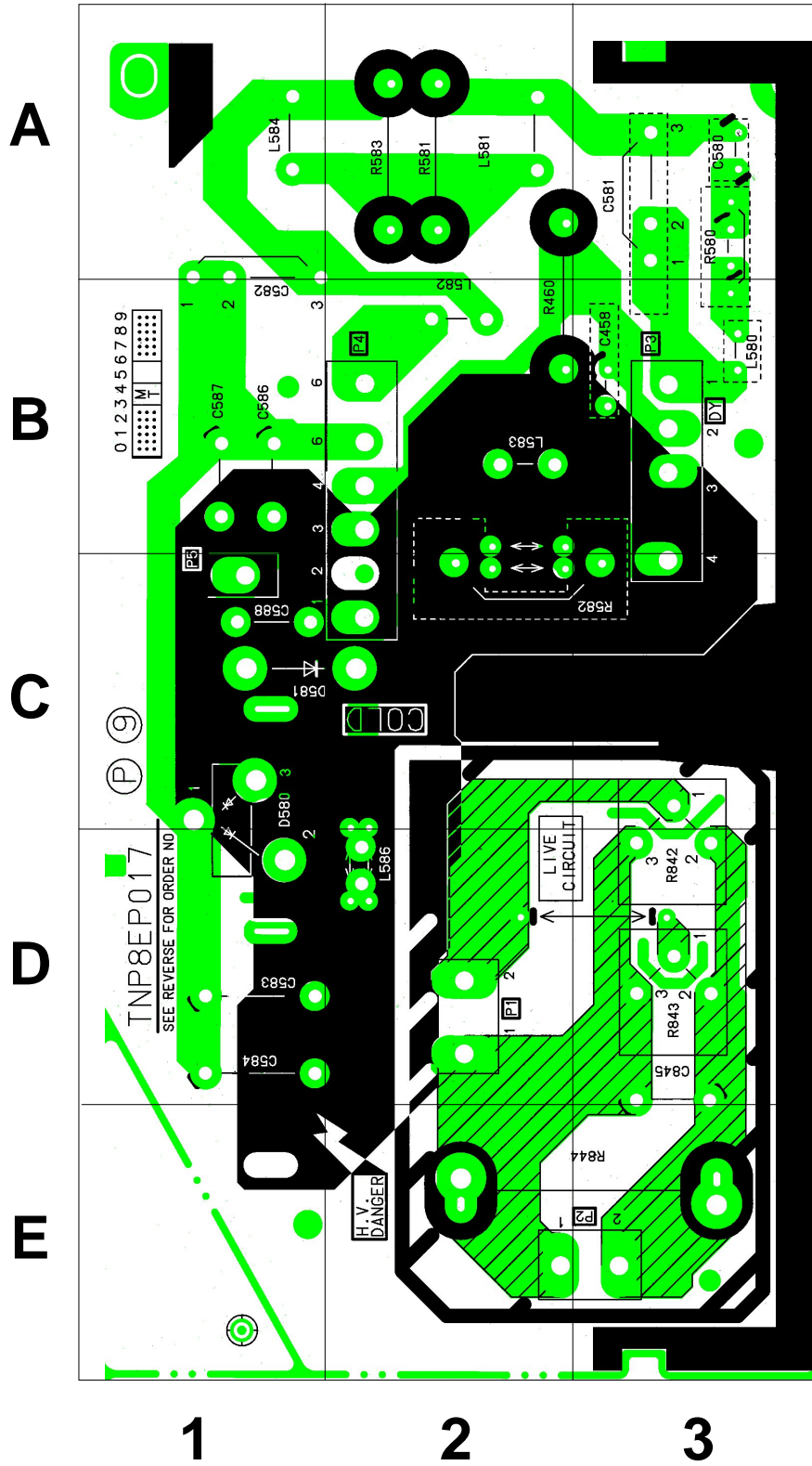
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| D1072 | A6 |
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| IC1071 | B2 |



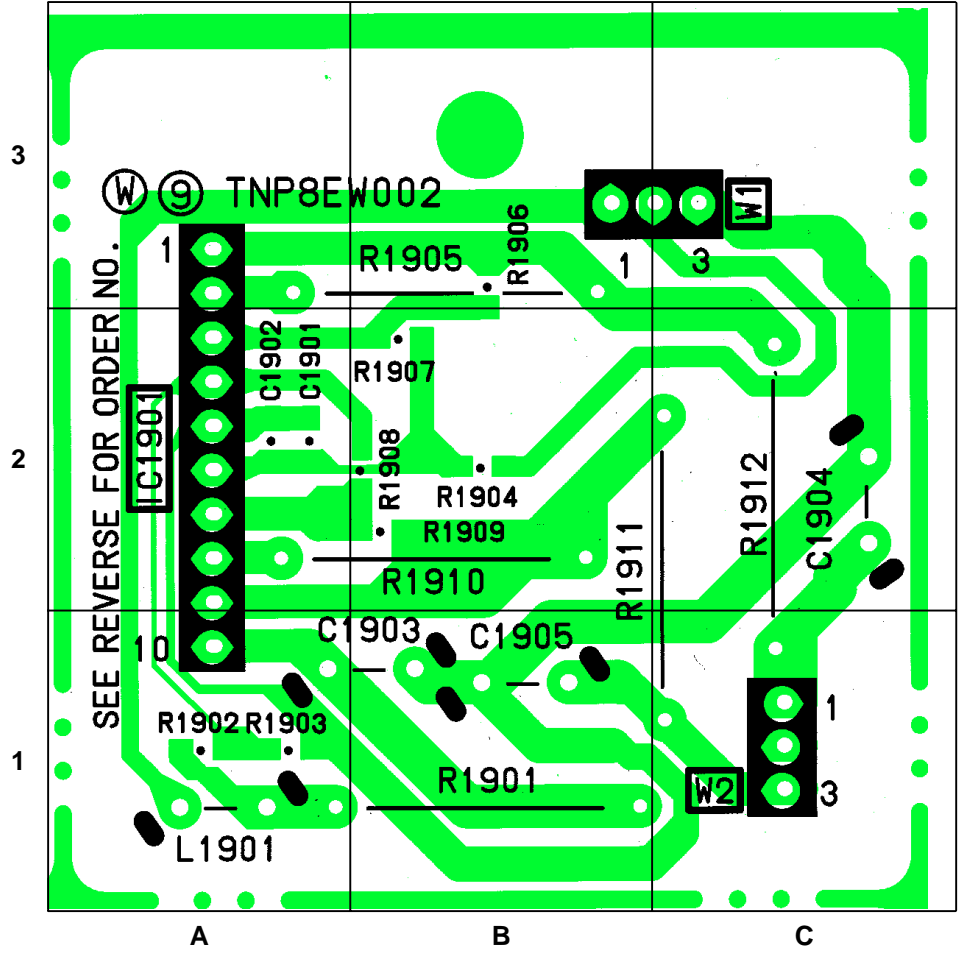
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| D580 | C1 |
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W - SCHEMA TNP8EW002

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| I.C.'S |
| IC1901 A2 |



Y - SCHEMA TNP8EY018

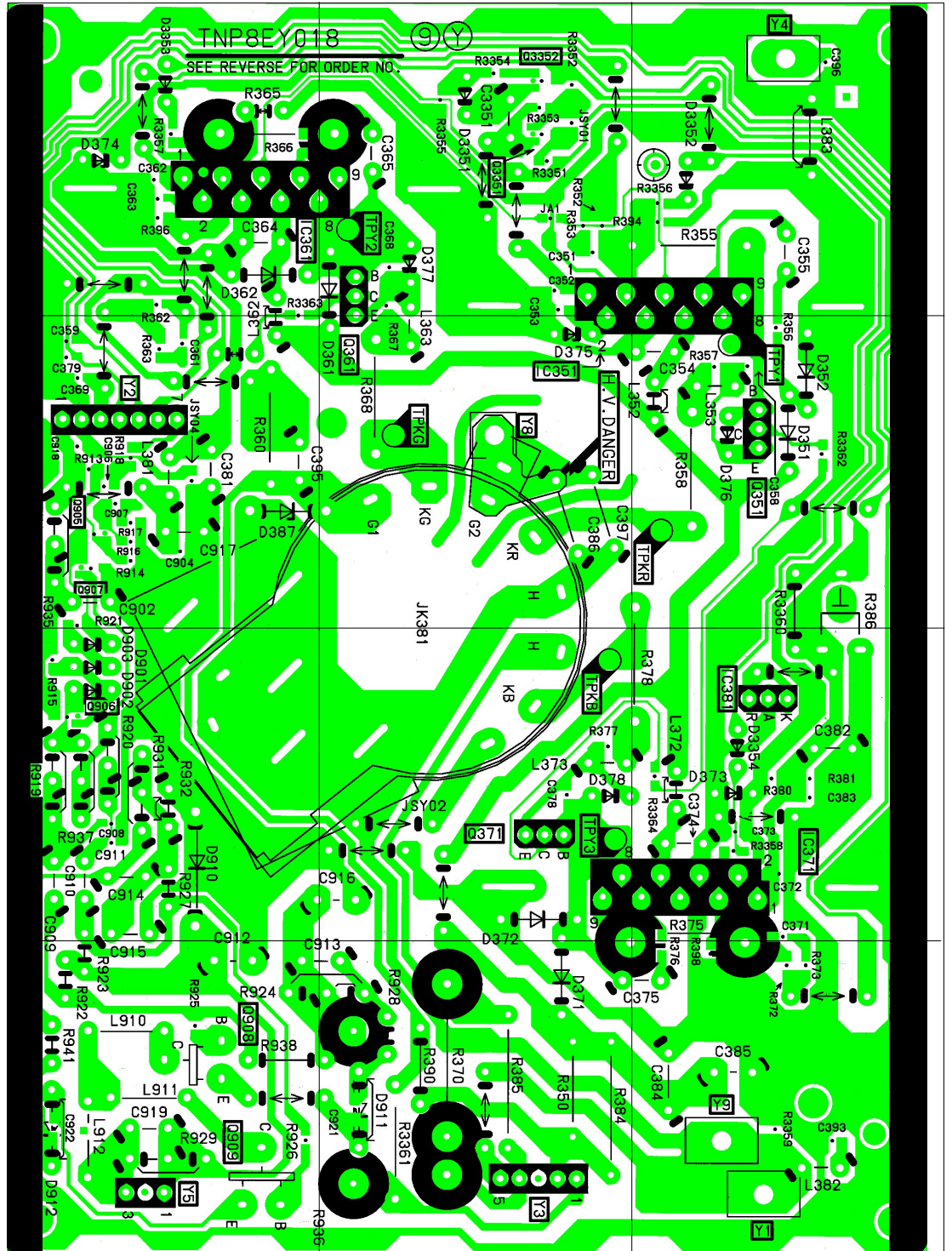
| TRAN'S | |
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| Q351 | B3 |
| Q361 | B2 |
| Q371 | C2 |
| Q905 | B1 |
| Q906 | C1 |
| Q907 | B1 |
| Q908 | D1 |
| Q909 | D1 |
| Q3351 | A2 |
| Q3352 | A2 |
| DIODES | |
| D351 | B3 |
| D352 | B3 |
| D361 | B2 |
| D362 | A1 |
| D371 | D2 |
| D372 | C2 |
| D373 | C3 |
| D374 | A1 |
| D375 | B2 |
| D376 | B3 |
| D377 | A2 |
| D378 | C2 |
| D387 | B1 |
| D901 | C1 |
| D902 | C1 |
| D903 | C1 |
| D910 | C1 |
| D911 | D2 |
| D912 | D1 |
| D3351 | A2 |
| D3352 | A3 |
| D3353 | A1 |
| D3354 | C3 |
| T.P.'S | |
| TPY1 | B3 |
| TPY2 | A2 |
| TPY3 | C2 |
| TPKR | B3 |
| TPKG | B2 |
| TPKB | C2 |
| I.C.'S | |
| IC351 | B2 |
| IC361 | A1 |
| IC371 | C3 |
| IC381 | C3 |

A

B

C

D



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2

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