

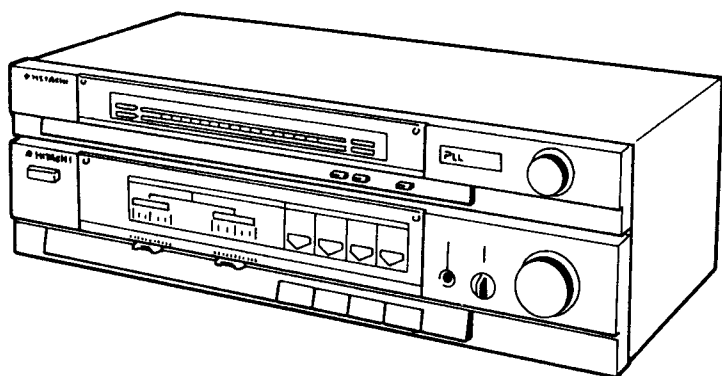
HITACHI SERVICE MANUAL

TY

No. 500 EGF

HTA-A30

(US,CS,SA,KS,VS,BS,ES,ZS,EW)



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This stereo tuner amplifier is the same as the model HTA-07 except that it has a appearance partly different from that model. This service manual shows the different points from HTA-07, so use together with the HTA-07/08 Service Manual (TY No. 450 EGF) issued previously.

Dieser Stereo-Tuner-Verstärker unterscheidet sich vom Modell HTA-07 nur durch ein etwas anderes Aussehen. Diese Wartungsanleitung behandelt nur solche Punkte, die sich vom Modell HTA-07 unterscheiden. Daher diese Anleitung zusammen mit der zuvor für HTA-07/08 herausgegebenen Anleitung (TY No. 450 EGF) verwenden.

Cet ampli-tuner stéréo est identique au modèle HTA-07 à l'exception des quelques différences d'aspect extérieur. Ce manuel de dépannage décrits les différences qui existent avec le modèle HTA-07 de sorte qu'il est indispensable de s'en servir avec le manuel de dépannage HTA-07/08 (TY No. 450 EGF) édité antérieurement.

SAFETY PRECAUTIONS

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers. Critical parts are marked with Δ in the circuit diagram and printed wiring board.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

STEREO TUNER AMPLIFIER

June 1986

TOYOKAWA WORKS

SICHERHEITSMASSNAHMEN

Bei Wartungsarbeiten sind die folgenden Sicherheitsmaßnahmen zu beachten .

1. Da verschiedene Teile dieses Gerätes Sicherheitsfunktionen aufweisen, nur Original-Hitachi-Ersatzteile verwenden. Kritische Teile im Netzteil sollten nicht durch ähnliche Teile anderer Hersteller ersetzt werden. Alle kritischen Teile sind im Schaltplan und im Diagramm der Schaltplatinen mit dem Symbol Δ gekennzeichnet.
2. Vor der Auslieferung eines reparierten Gerätes an den Kunden muß der Wartungstechniker das Gerät einer gründlichen Prüfung unterziehen, um sicherzustellen, daß sicherer Betrieb ohne die Gefahr von elektrischen Schlägen gewährleistet ist.

PRÉCAUTIONS DE SÉCURITÉ

Les précautions suivantes doivent être observées chaque fois qu'une réparation doit être faite.

1. Etant donné que de nombreux composants de l'appareil possèdent des caractéristiques relatives à la sécurité, utiliser uniquement des pièces de rechange d'origine Hitachi pour effectuer un remplacement. Ceci se rapporte notamment aux pièces critiques du bloc d'alimentation qui ne doivent en aucun cas être remplacées par celles d'autres fabricants. Les pièces critiques sont accompagnés du symbole Δ dans le schéma de montage et sur le schéma de plaque de câblage.
2. Avant de retourner l'appareil réparé au client le technicien doit procéder à un essai complet pour s'assurer qu'il ne présente aucun danger de chocs électriques.

The circuit symbol (☆) means difference for destination. (Refer to the table in the drawing)

Das Schaltsymbol (☆) deutet Unterscheidung gegen Bestimmungsort. (Die Tabelle inner die Zeichnung nachlesen)

Le symbole de circuit (☆) signifie qu'il s'agit des différence pour destination. (Consulter la table dans le plan)

※ : Axial lead cylindrical ceramic capacitor

※ : Zylindrischer Keramikkondensator mit axialer Zuleitung

※ : Condensateur céramique cylindrique à conducteur axial

REPLACEMENT PARTS LIST

ERSATZTEILLISTE

TABLEAU DES PIÈCES

This replacement parts list covers only different points between HTA-A30 and HTA-07.
 Diese Ersatzteilliste beinhaltet nur der Unterschieden zwischen HTA-A30 und HTA-07.
 Ce tableau des pièces traite uniquement les points des différences entre HTA-A30 et HTA-07.

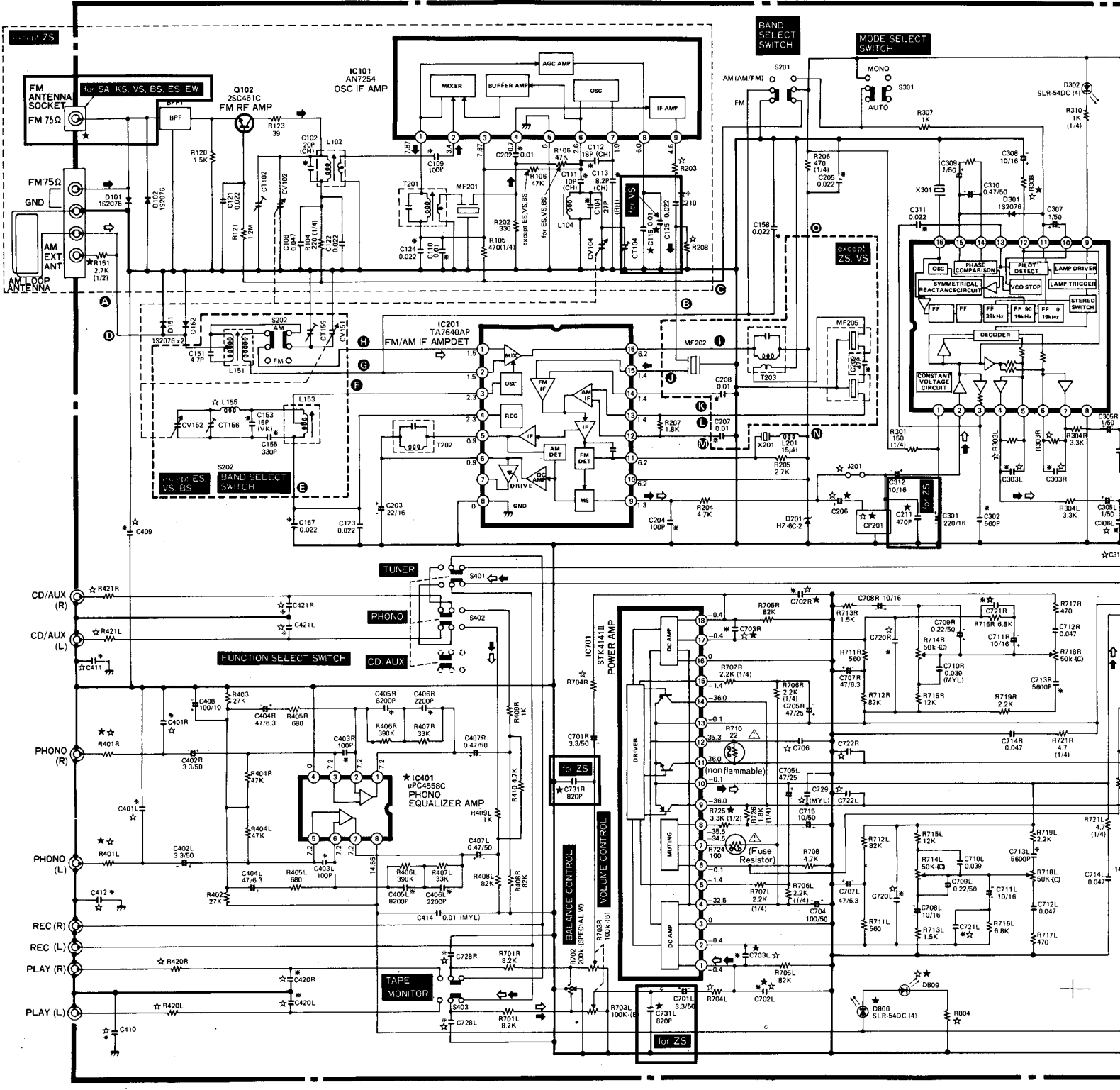
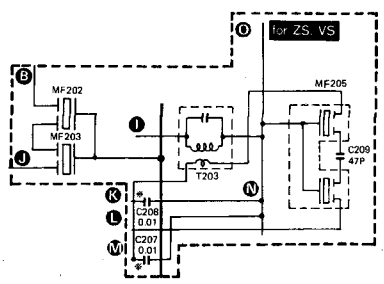
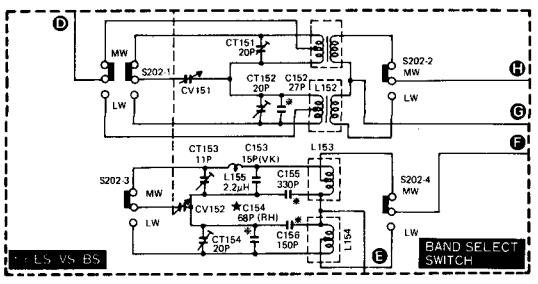
| SYMBOL No. | HTA-A30 | | HTA-07 | | |
|-----------------|----------|--|-------------------------------|--------------------------------|---------------------------------------|
| | PART No. | DESCRIPTION | PART No. | DESCRIPTION | |
| 1 | 4463923 | Cover | 4460206 | Cover ass'y | |
| 2 | 3201308 | Front panel ass'y (for ES, VS, BS) | 3969981 | Front panel | |
| | 3201309 | Front panel ass'y (except ES, VS, BS) | 3904711 | Blind (A) | |
| | | | 3975031 | Blind (T) (for ES, VS, BS) | |
| | | 3975032 | Blind (T) (except ES, VS, BS) | | |
| 6 | 3307011 | Button (CD/AUX) | 3305061 | Button (CD/AUX) | |
| 7 | 3307012 | Button (TUNER) | 3305062 | Button (TUNER) | |
| 8 | 3307013 | Button (PHONE) | 3305063 | Button (PHONE) | |
| 9 | 3307014 | Button (TAPE MONITOR) | 3305064 | Button (TAPE) | |
| 10 | 3307031 | Knob ass'y (tuning) | 3305082 | Knob (24) (for US, CS) | |
| | | | 3305081 | Knob (24) (except US, CS) | |
| 11 | 3307023 | Knob ass'y (volume) | 3301932 | Volume (35) (for US, CS) | |
| | | | 3301931 | Volume (35) (except US, CS) | |
| 13 | 3305074 | Slide knob (tone control) | 3305072 | Slide volume | |
| 14 | 3305042 | Push button (mode select, band select) | 3305043 | Push button | |
| | | | 3305052 | Remote shaft | |
| 15 | 3297795 | Power button | 3305051 | Shaft | |
| | | | 3297792 | Power button ass'y | |
| | | | 3387641 | Pointer case (except US, CS) | |
| | 3387642 | Pointer case (except US, CS) | 3387641 | Pointer case (except US, CS) | |
| 17 | 4468381 | Rear plate (for ES, VS, KS, BS, SA) | 4462211 | Rear plate (for ES, VS, KS) | |
| | 4468382 | Rear plate (for EW) | 4462212 | Rear plate (for BS, SA) | |
| | 4468383 | Rear plate (for US, CS) | 4465044 | Rear plate (for EW) | |
| | 4468384 | Rear plate (for ZS) | 4463187 | Rear plate (for ZS) | |
| | | | 4462215 | Rear plate (for US) | |
| | | | 4463189 | Rear plate (for CS) | |
| 18 | 0043793 | Bushing (for EW) | 0043793 | Bushing (3P-4) (for US, EW) | |
| | 3913006 | Bushing (except EW) | 3713006 | Bushing (4N-4) (except US, EW) | |
| 19 | 2702711 | AC cord (for US, CS) | 2700121 | AC cord (for US) | |
| | | | 2700122 | AC cord (for CS) | |
| 21 | 2658391 | DIN antenna socket (for ZS) | 2677911 | FM antenna socket (for ZS) | |
| | | | | 2677911 | FM antenna socket (except US, CS, ZS) |
| | | | | Not used. | |
| | 2727671 | Fuse holder (for EW) | | Not used. | |
| 25, 26 | 2678621 | AC jack (for US, CS, EW) | 2678621 | AC jack | |
| 25, 26 | 2658711 | Power jack (except US, CS, EW) | | | |
| | 3920661 | Cap | | Not used. | |
| for ACCESSORIES | | | | | |
| | 2757528 | FM antenna (except ZS) | 2757525 | FM antenna (except ZS) | |

| SYMBOL No. | HTA-A30 | | | | HTA-07 | | | |
|---------------|----------|---|-------------------------|---------------------------------|----------|---|-------------------------|-----------------------------|
| | PART No. | DESCRIPTION | | | PART No. | DESCRIPTION | | |
| CAPACITORS | | | | | | | | |
| C115 | 1252821 | EL | 10 μ F \pm 20% | 50V (for ZS) | 0252821 | EL | 10 μ F \pm 20% | 50V (for ZS) |
| C125 | 0244173 | CD | 0.022 μ F \pm 80% | 50V (for VS) | | | Not used. | |
| C154 | 0248050 | CD | 68PF \pm 5% | 50V (for ES, VS, BS) | 1248050 | CD | 68PF \pm 5% | 50V (for ES, VS, BS) |
| | | | | | | | | |
| C206 | 0252521 | EL | 10 μ F \pm 20% | 16V (for ZS, VS) | 0252521 | EL | 10 μ F \pm 20% | 16V (for ZS) |
| C211 | 0249723 | CD | 470PF \pm 10% | 50V (for ZS) | | | Not used. | |
| C702LR | 0230620 | CC | 22PF \pm 5% | 50V (for ZS) | 0240037 | CD | 220PF \pm 10% | 50V (for ZS) |
| C703LR | 0240043 | CC | 680PF \pm 10% | 50V (for ZS) | 0240040 | CD | 390PF \pm 10% | 50V (for ZS) |
| C726LR | 0209737 | CD | 0.01 μ F \pm 10% | 50V (for ZS) | 0274013 | CD | 2200PF \pm 10% | 50V (for ZS) |
| C731LR | 0240044 | CC | 820PF \pm 10% | 50V (for ZS) | | | Not used. | |
| C807 | 0276511 | MF | 0.1 μ F \pm 10% | 100V | 1276511 | MF | 0.1 μ F \pm 10% | 100V |
| RESISTORS | | | | | | | | |
| R151 | 0113370 | CF | 2.7k Ω \pm 5% | SRD1/2P | 0134378 | CO | 2.7k Ω \pm 10% | SRD1/2P |
| R308 | 0113647 | CF | 22k Ω \pm 5% | SRD1/6P (for ZS, VS) | 0113647 | CF | 22k Ω \pm 5% | SRD1/6P (for ZS) |
| | 0113651 | CF | 33k Ω \pm 5% | SRD1/6P (except US, CS, ZS, VS) | 0113651 | CF | 33k Ω \pm 5% | SRD1/6P (except US, CS, ZS) |
| R401LR | 0113627 | CF | 3.3k Ω \pm 5% | SRD1/6P (for ZS) | 0113615 | CF | 1k Ω \pm 5% | SRD1/6P |
| | 0113615 | CF | 1k Ω \pm 5% | SRD1/6P (except ZS) | | | | |
| R723LR | 0113293 | CF | 330 Ω \pm 5% | SRD1/2P | 0134367 | CO | 330 Ω \pm 10% | SRD1/2P |
| R725 | 0113371 | CF | 3.3k Ω \pm 5% | SRD1/2P | 0134379 | CO | 3.3k Ω \pm 10% | SRD1/2P |
| IC and DIODES | | | | | | | | |
| IC401 | 2300831 | μ C PC4558C | | | 2387301 | M5218P | | |
| D101 | 2337011 | 1S2076 | | | 2337601 | 1S2473 | | |
| D102 | 2337011 | 1S2076 | | | 2337601 | 1S2473 | | |
| D151 | 2337011 | 1S2076 | | | 2337601 | 1S2473 | | |
| D152 | 2337011 | 1S2076 | | | 2337601 | 1S2473 | | |
| D301 | 2337011 | 1S2076 | | | 2337601 | 1S2473 | | |
| D808 | 2337011 | 1S2076 | | | 2337601 | 1S2473 | | |
| D302 | 2398402 | SLR-54DC (4) | | | 2337601 | 1S2473 | | |
| D806 | 2398402 | SLR-54DC (4) | | | 2397064 | SLH-54VC | | |
| D809 | 2337833 | TLY-206 (for US, CS) | | | 2397064 | SLH-54VC | | |
| | | | | | 2337831 | TLR-206 (for US, CS) | | |
| MISCELLANEOUS | | | | | | | | |
| CP201 | 2136313 | Filter (for ZS, VS) | | | 2136312 | Anti birdie filter (for ZS) | | |
| | 2789733 | FM ceramic disci ass'y [X201, MF201, MF202, MF203] (for ZS, VS) | | | 2789733 | FM ceramic disci ass'y [X201, MF201, MF202, MF203] (for ZS) | | |
| | 2789732 | FM ceramic disci ass'y [X201, MF201, MF202] (except US, CS, ZS, VS) | | | 2789732 | FM ceramic disci ass'y [X201, MF201, MF202] (except US, CS, ZS) | | |

CIRCUIT DIAGRAM · SCHALTPLAN · PLAN DE CIRCUIT

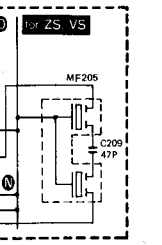
SIGNAL CURRENT [➡ : FM, ⇄ : AM]

| ☆ No. | US. CS | KS. SA | EW | ES. VS |
|---------|--------|--------|----|---------------|
| C125 | | | | 0.022 (VS on) |
| C206 | | | | 10 (VS on) |
| C210 | 0.01 | | | |
| C211 | | | | |
| C303L,R | 820P | 330P | | |
| C306L,R | | | | |
| C313 | | | | |
| C401L,R | | | | |
| C409 | 0.01 | | | |
| C410 | | | | |
| C411 | | | | |
| C420L,R | | | | |
| C421L,R | | | | |
| C702L,R | 150P | | | |
| C703L,R | 560P | | | |



AL CURRENT
: FM, ➡ : AM]

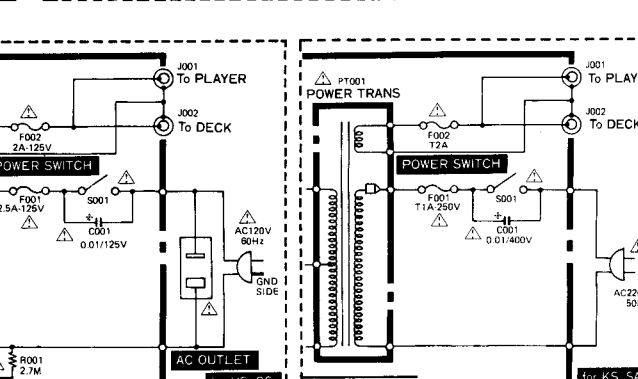
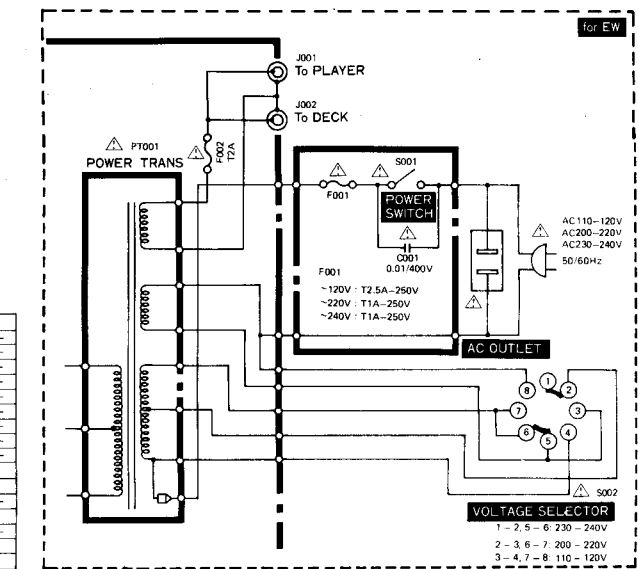
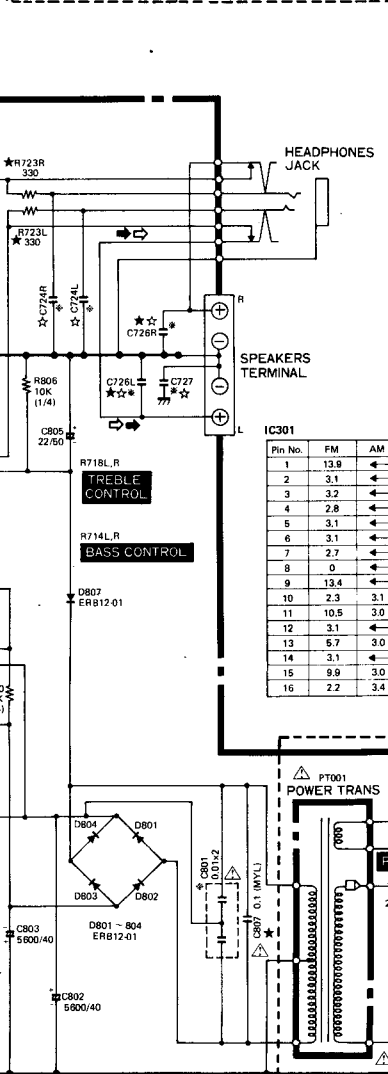
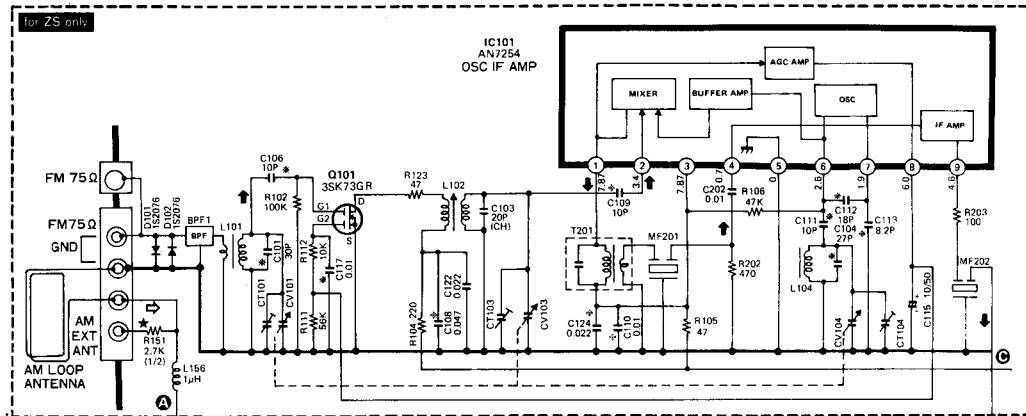
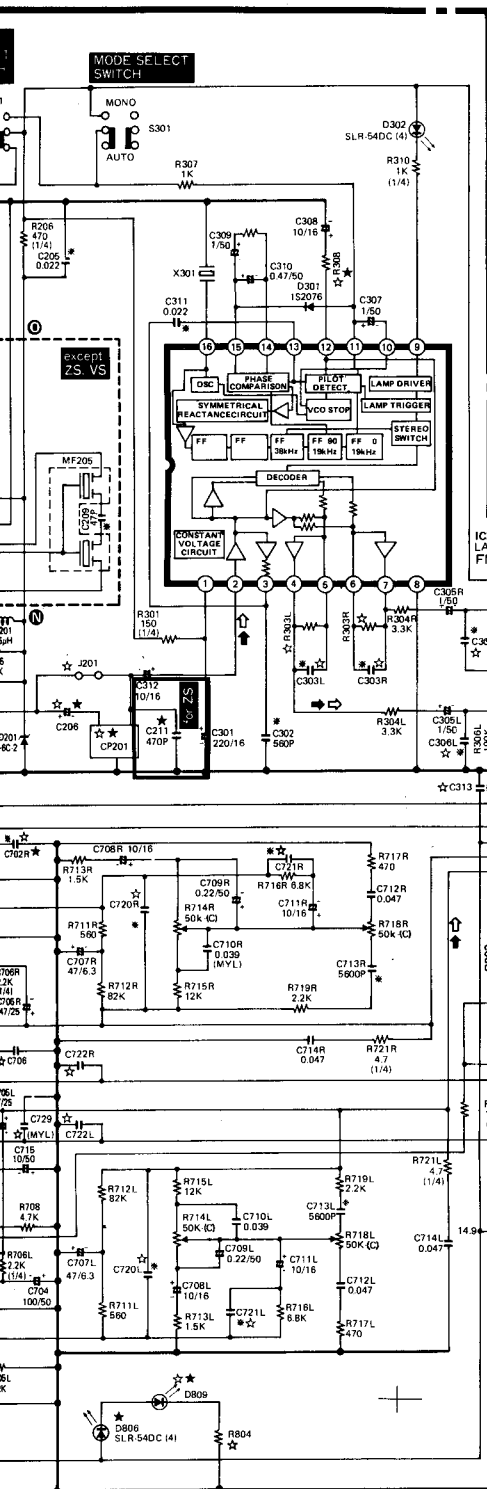
★ : THE DIFFERENT POINTS BETWEEN HTA-A30 AND HTA-07.
★ : DER UNTERSCHIEDEN ZWISCHEN HTA-A30 UND HTA-07.
★ : LES POINTS DES DIFFÉRENCE ENTRE HTA-A30 ET HTA-07.

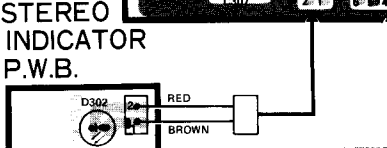
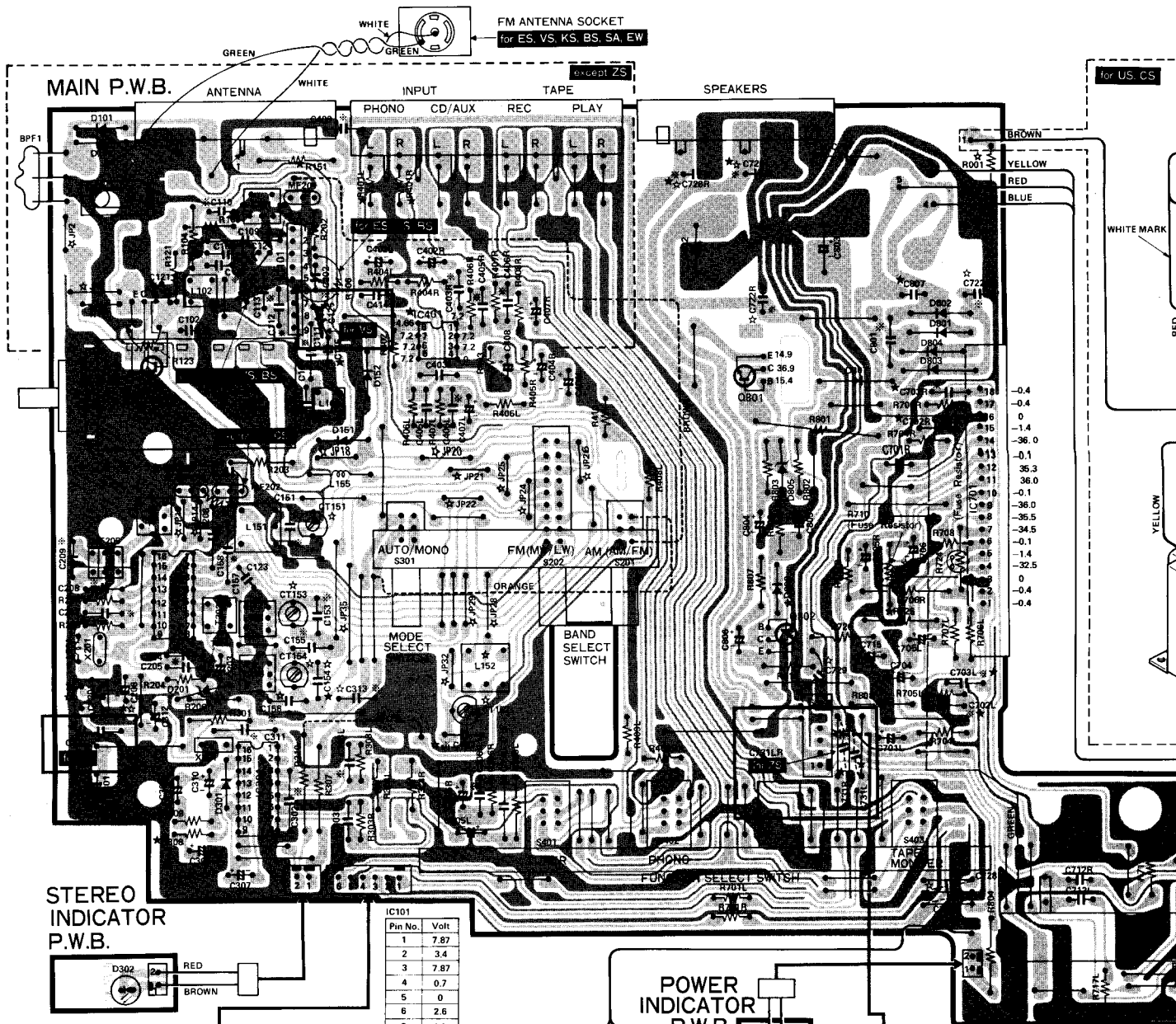


| ★ No. | US, CS | KS, SA | EW | ES, VS, BS | ZS |
|---------|--------|--------|----|-----------------|-------|
| C125 | | | | 0.022 [VS only] | |
| C206 | | | | 10 [VS only] | 10 |
| C210 | 0.01 | | | | |
| C211 | | | | | 470P |
| C303L,R | 820P | 330P | | | |
| C306L,R | | | | | 1000P |
| C313 | | | | | 0.01 |
| C401L,R | | | | | 1000P |
| C409 | 0.01 | | | | |
| C410 | | | | | 0.01 |
| C411 | | | | | 0.01 |
| C412 | | | | | 0.01 |
| C420L,R | | | | | 1000P |
| C411L,R | | | | | 1000P |
| C702L,R | 150P | | | | 22P |
| C703L,R | 560P | | | | 680 |

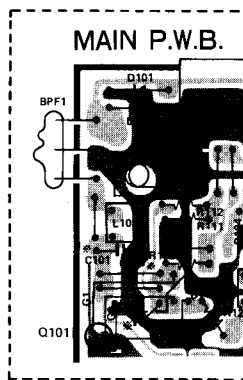
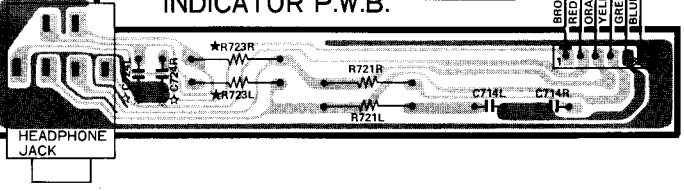
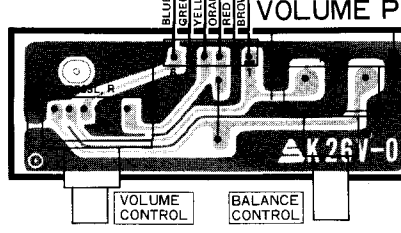
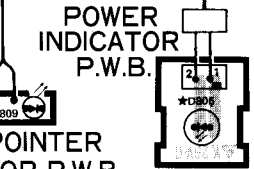
| ★ No. | US, CS | KS, SA | EW | ES, VS, BS | ZS |
|---------|--------|--------|----|--------------------------|-------|
| C706 | 0.22 | | | | |
| C720L,R | 22P | | | | 68P |
| C721L,R | 68P | | | | |
| C722L,R | | | | | 0.01 |
| C724L,R | | | | | 0.01 |
| C726L,R | | | | | 0.01 |
| C727 | | | | | 0.01 |
| C728L,R | 470P | | | | 1000P |
| C729 | 0.22 | | | | |
| C731L | | | | | 820P |
| R203 | 680 | 100 | | | |
| R208 | 680 | | | | |
| R303L,R | 82K | 150K | | | |
| R308 | 68K | | | 33K [ES, BS] 22K [VS] | 22K |
| R401L,R | 1K | | | | 3.3K |
| R420L,R | | | | | 680 |

| ★ No. | US, CS | KS, SA | EW | ES, VS, BS | ZS |
|---------|------------|----------|----|------------|--------|
| R421L,R | | | | | 680 |
| R704L,R | 4.7K | | | | 2.2K |
| R804 | 1.8K | 2.2K | | | |
| D809 | Use | | | | |
| L155 | 2.2μH | | | | 0.22μH |
| CP201 | | | | | Use |
| F001 | T2.5A-125V | T1A-250V | | | |
| F002 | T2A-125V | T2A | | | |
| J201 | Use | | | | |





| Pin No. | Volt |
|---------|------|
| 1 | 7.87 |
| 2 | 3.4 |
| 3 | 7.87 |
| 4 | 0.7 |
| 5 | 0 |
| 6 | 2.6 |
| 7 | 1.9 |
| 8 | 6.0 |
| 9 | 4.6 |



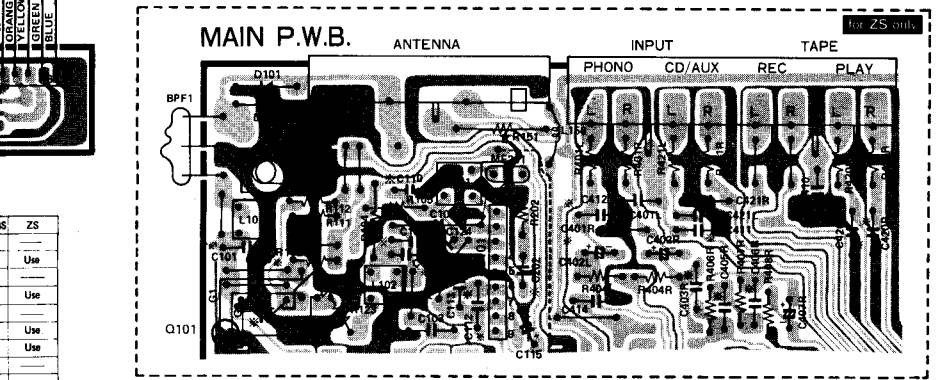
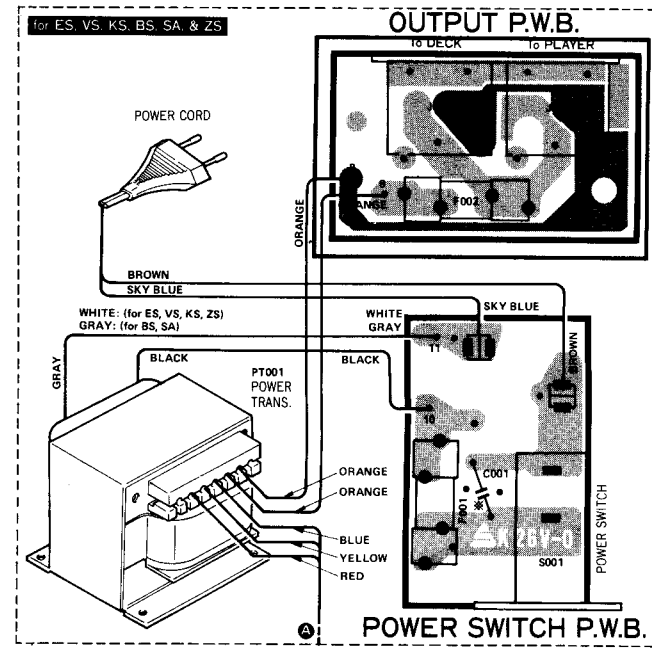
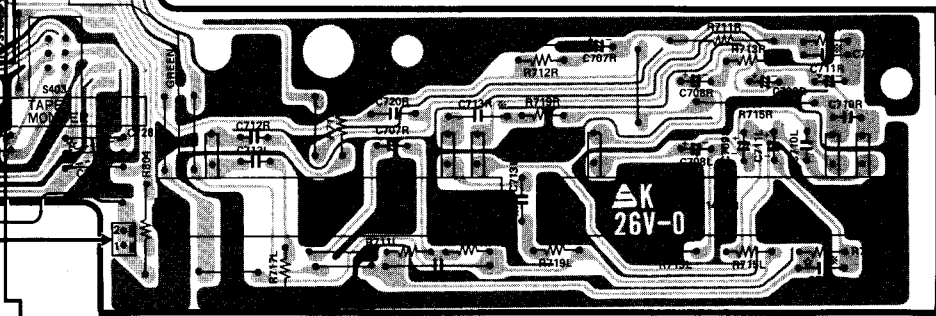
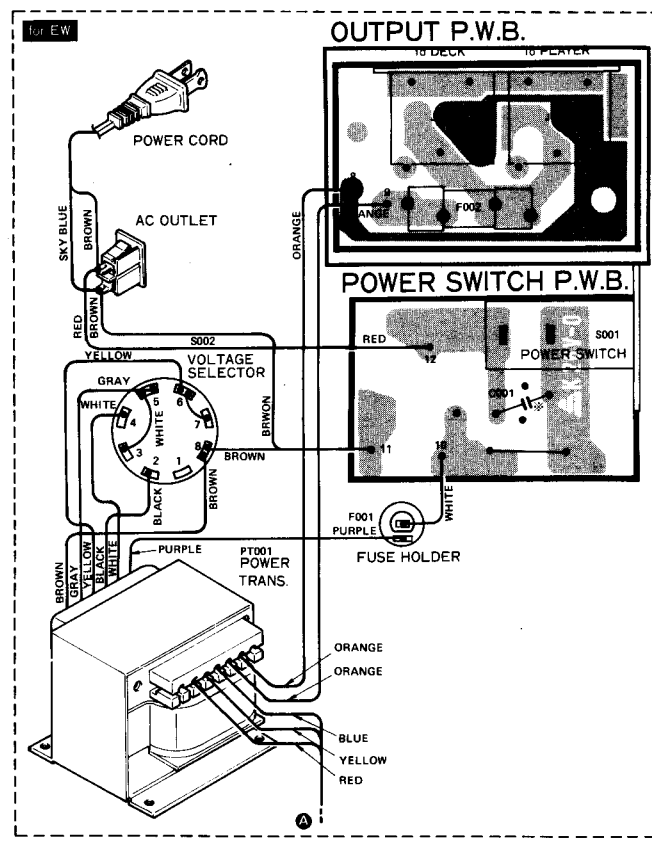
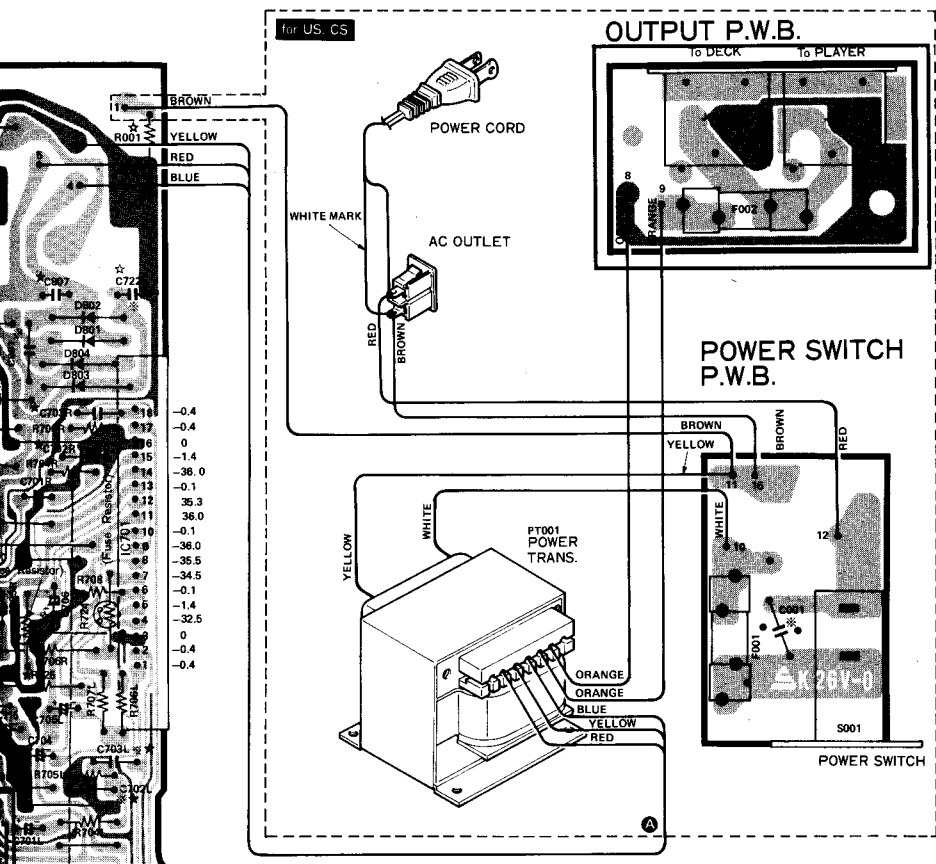
| ★ No. | US, CS | KS, SA | EW | ES, VS, BS | ZS |
|---------|--------|--------|----|---------------|-----|
| C125 | Use | ← | ← | Use (VS only) | Use |
| C151 | Use | ← | ← | Use | Use |
| C152 | Use | ← | ← | Use | Use |
| C154 | Use | ← | ← | Use | Use |
| C156 | Use | ← | ← | Use | Use |
| C206 | Use | ← | ← | Use | Use |
| C210 | Use | ← | ← | Use | Use |
| C211 | Use | ← | ← | Use | Use |
| C306L,R | Use | ← | ← | Use | Use |
| C313 | Use | ← | ← | Use | Use |
| C706 | Use | ← | ← | Use | Use |
| C721L,R | Use | ← | ← | Use | Use |
| C722L,R | Use | ← | ← | Use | Use |
| C724L,R | Use | ← | ← | Use | Use |
| C726L,R | Use | ← | ← | Use | Use |
| C727 | Use | ← | ← | Use | Use |
| C728L,R | Use | ← | ← | Use | Use |
| C731L,R | Use | ← | ← | Use | Use |

| ★ No. | US, CS | KS, SA | EW | ES, VS, BS | ZS |
|-------|--------|--------|----|------------|-----|
| C729 | Use | ← | ← | Use | Use |
| R001 | Use | ← | ← | Use | Use |
| R208 | Use | ← | ← | Use | Use |
| D809 | Use | ← | ← | Use | Use |
| L152 | Use | ← | ← | Use | Use |
| L154 | Use | ← | ← | Use | Use |
| CT151 | Use | ← | ← | Use | Use |
| CT152 | Use | ← | ← | Use | Use |
| CT153 | Use | ← | ← | Use | Use |
| CT154 | Use | ← | ← | Use | Use |
| CP201 | Use | ← | ← | Use | Use |
| MF202 | Use | ← | ← | Use | Use |
| MF203 | Use | ← | ← | Use | Use |
| JP2 | Use | ← | ← | Use | Use |

| ★ No. | US, CS | KS, SA | EW | ES, VS, BS | ZS |
|-------|--------|--------|----|------------|-----|
| JP3 | Use | ← | ← | Use | Use |
| C729 | Use | ← | ← | Use | Use |
| JP13 | Use | ← | ← | Use | Use |
| JP14 | Use | ← | ← | Use | Use |
| JP18 | Use | ← | ← | Use | Use |
| JP20 | Use | ← | ← | Use | Use |
| JP21 | Use | ← | ← | Use | Use |
| JP22 | Use | ← | ← | Use | Use |
| JP24 | Use | ← | ← | Use | Use |
| JP25 | Use | ← | ← | Use | Use |
| JP26 | Use | ← | ← | Use | Use |
| JP28 | Use | ← | ← | Use | Use |
| JP29 | Use | ← | ← | Use | Use |
| JP32 | Use | ← | ← | Use | Use |
| JP35 | Use | ← | ← | Use | Use |

- ★ : THE DIFFERENT POINTS BETWEEN HTA-A30 AND HTA-07.
- ★ : DER UNTERSCHIEDEN ZWISCHEN HTA-A30 UND HTA-07.
- ★ : LES POINTS DES DIFFÉRENCE ENTRE HTA-A30 ET HTA-07.

Earth, [] :Others]



IC201

| Pin No. | Volt | Pin No. | Volt |
|---------|------|---------|------|
| 1 | 1.5 | 11 | 6.2 |
| 2 | 1.5 | 12 | — |
| 3 | 2.3 | 13 | 1.4 |
| 4 | 2.3 | 14 | 1.4 |
| 5 | 0.9 | 15 | 1.4 |
| 6 | 0.9 | 16 | 6.2 |
| 7 | — | — | — |
| 8 | 0 | — | — |
| 9 | 1.3 | — | — |
| 10 | 6.2 | — | — |

IC301

| Pin No. | FM | AM | Pin No. | FM | AM |
|---------|------|-----|---------|------|-----|
| 1 | 13.9 | ← | 11 | 10.5 | 3.0 |
| 2 | 3.1 | ← | 12 | 3.1 | ← |
| 3 | 3.2 | ← | 13 | 5.7 | 3.0 |
| 4 | 2.8 | ← | 14 | 3.1 | ← |
| 5 | 3.1 | ← | 15 | 9.9 | 3.0 |
| 6 | 3.1 | ← | 16 | 2.2 | 3.4 |
| 7 | 2.7 | ← | — | — | — |
| 8 | 0 | ← | — | — | — |
| 9 | 13.4 | ← | — | — | — |
| 10 | 2.3 | 3.1 | — | — | — |

| Pin No. | Use |
|---------|-----|
| 1 | Use |
| 2 | Use |
| 3 | Use |
| 4 | Use |
| 5 | Use |
| 6 | Use |
| 7 | Use |
| 8 | Use |
| 9 | Use |
| 10 | Use |

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