

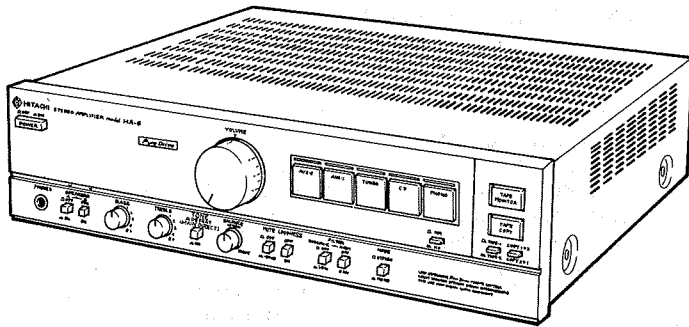
# HITACHI

## SERVICE MANUAL

TY

No. 387 EGF

HA-6



### CONTENTS · INHALT · SOMMAIRE

SPECIFICATIONS · TECHNISCHE DATEN · CARACTÉRISTIQUES TECHNIQUES	1,2
FEATURES · MERKMALE · CARACTÉRISTIQUES	3
DISASSEMBLY AND REPLACEMENT · ZERLEGUNG UND AUSTAUCH · DEMONTAGE ET REMONTAGE	3,4
SERVICE POINTS · WARTUNGSPUNKTE · POINTS DE SERVICE	5
ADJUSTMENT · ABGLEICH · REGLAGE	6
DISCUSSION OF THE NEW CIRCUIT · BESCHREIBUNG DES NEUEN SCHALTKREISES · RENSEIGNEMENTS CONCERNANT LE NOUVEAU CIRCUIT	6,7
EXPLANATION OF THE NEW PARTS · ERLÄUTERUNG DER NEUEN TEILE · EXPLICATION DES NOUVELLES PIÈCES	7,8
CIRCUIT DIAGRAM · SCHALTPLAN · PLAN DE CIRCUIT	9
PRINTED WIRING BOARD · PRINTPLATTEN · PLAN DE BASE	10,11
CHECKING THE OPERATION OF THE PROTECTION CIRCUIT · KONTROLLE DER FUNKTION DER SCHUTZSCHALTUNG · CONTRÔLE DE FONCTIONNEMENT DU CIRCUIT DE PROTECTION	12~15
BLOCK DIAGRAM · BLOCK SCHEMA · SCHEMA	15
REPLACEMENT PARTS LIST · ERSATZTEILLISTE · TABLEAU DES PIÈCES	16~20
FRONT AND REAR PANEL · VORDERE UND HINTERE BEDIENUNGSTAFEL · PANNEAUX AVANT ET ARRIÈRE	21,22

### SAFETY PRECAUTION

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  $\Delta$  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

<b>Power output (Both channels driven)</b>	100 Watts* per channel, min. RMS, at 8 ohms from 20 Hz to 20 kHz, with no more than 0.005% total harmonic distortion.	<b>Output level</b>	
	105 W/ch + 105 W/ch (8 ohms, 1 kHz, T.H.D. 0.005% SINUS)	<b>TAPE REC OUT 1,2</b>	150 mV/560 ohms
	100 W/ch + 100 W/ch (8 ohms, 20 Hz - 20 kHz, T.H.D. 0.005%)	<b>Phono overload level (at 1 kHz T.H.D. 0.01%)</b>	MM: 230 mV, MC: 20 mV
<b>Harmonic distortion (8 ohms) (at 1/2 rated output)</b>	0.005%	<b>Signal-to-noise-ratio (IHF, A network)</b>	
<b>Intermodulation distortion (at 1/2 rated output)</b>	0.005%	<b>PHONO</b>	90 dB (MM), 70 dB (MC)
<b>Power bandwidth</b>	5 Hz - 40 kHz, (T.H.D. 0.1%, 1/2, Rated)	<b>CD, TUNER, AUX-1,2</b>	
<b>Frequency characteristics</b>		<b>TAPE 1,2</b>	105 dB
<b>PHONO</b>	20 Hz - 20 kHz, RIAA $\pm 0.2$ dB (MM)	<b>Damping factor</b>	80 (1 kHz, 8 ohms)
<b>CD, TUNER, AUX-1,2, TAPE 1,2</b>	5 Hz - 200 kHz (-3 dB)	<b>Bass control</b>	$\pm 8$ dB (100 Hz)
<b>Input sensitivity/Impedance</b>		<b>Treble control</b>	$\pm 8$ dB (10 kHz)
<b>PHONO</b>	MM 2.5 mV/47 k-ohms MC 0.25 mV/100 ohms	<b>Loudness control</b>	+6 dB (100 Hz) +3 dB (10 kHz)
<b>CD, TUNER, AUX 1,2, TAPE PLAY 1,2</b>	150 mV/47 k-ohms 150 mV/47 k-ohms	<b>Subsonic filter/High filter</b>	30 Hz (-6 dB/oct) 8 kHz (-6 dB/oct)
		<b>Power supply</b>	AC 120 V 60 Hz, ~ 220 V 50/60 Hz, ~ 240 V 50/60 Hz or ~ 120 V/220 V/240 V 50/60 Hz
		<b>Power consumption</b>	500 W (at rated output) 350 W/450 VA (at 1/3 rated output) 200 W (at 1/10 rated output) (for U.S.A.)
		<b>Dimensions</b>	435(W) $\times$ 115(H) $\times$ 386(D) mm
		<b>Weight</b>	10.5 kg

\* Measured pursuant to the Federal Trade Commission's Trade Regulation Rule on Power Output Claims for Amplifiers.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

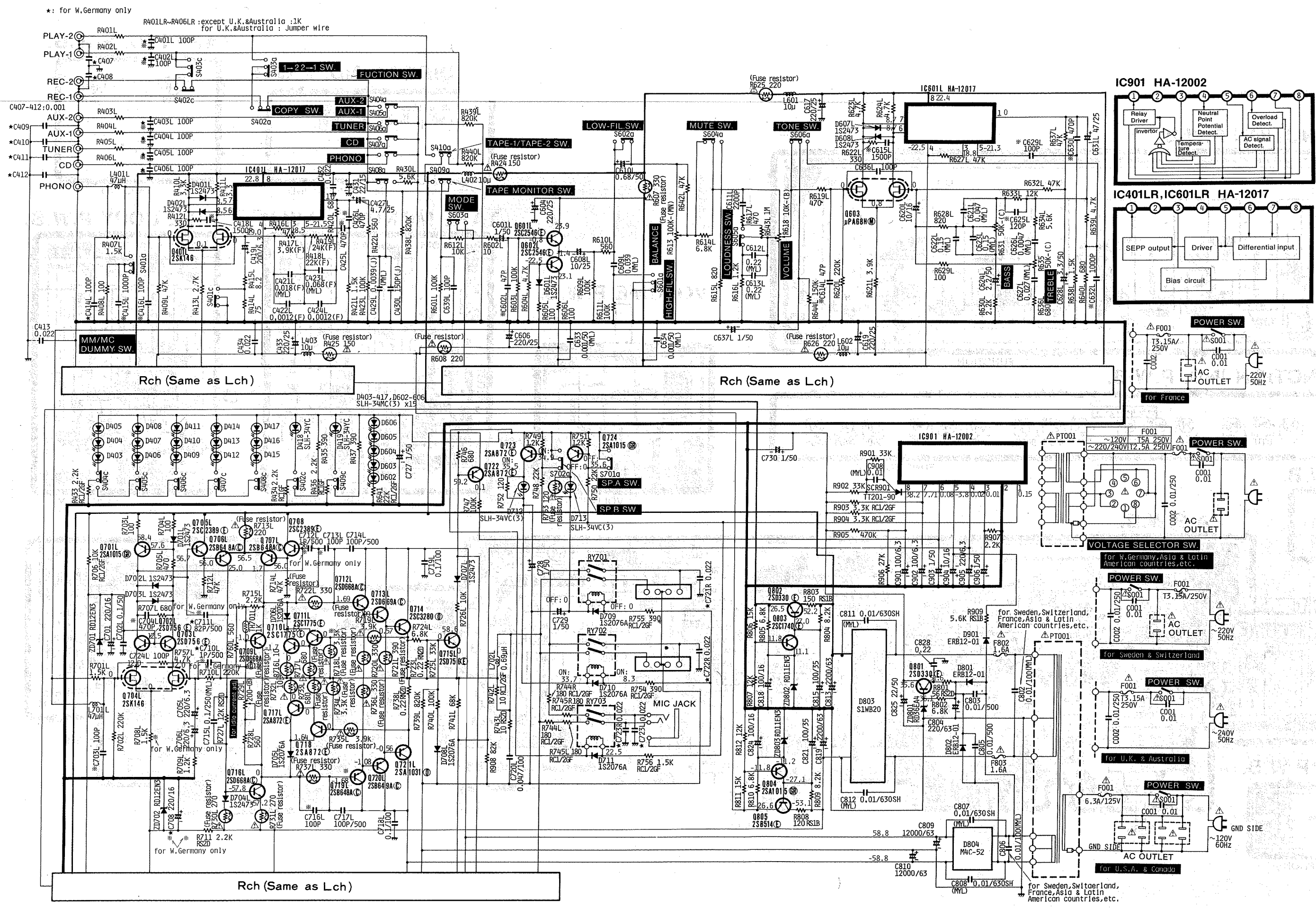
## STEREO AMPLIFIER

September 1983

TOYOKAWA WORKS

CIRCUIT DIAGRAM · SCHALTPLAN · PLAN DE CIRCUIT

CAUTION  
Use the electrolytic capacitors with explosion-proof valve when the diameter of them is more than 10mmφ.



HA-1207 HA-12017	2SK146
HA-12002	1S2473 RD12EN3 RD36EB4 RD11EN3
IC401LR, IC601LR HA-12017	2SA1015 (GB) 2SC2389 (E) 2SC1775 (E) 2SA872 (E) 2SC1740LN (E) 2SC2546 (E)
IC901 HA-12002	ERB12-01R
POWER SW. (for France)	MN3008 MN5101
POWER SW. (for Sweden & Switzerland)	S1WB20
POWER SW. (for U.K. & Australia)	M4C-52-13
POWER SW. (for U.S.A. & Canada)	SLH-34MC(3) SLH-34VC(3)
	2SD756A (E)
	SLH-34YC(4)
	2SD330 (E) 2SD330AL (E) 2SA514AL (E)