

Service Manual

Cassette Deck

RS-HD550

AR1 Mechanism Series

Colour

(N).....Gold Type

Area

(E).....Europe.

Service Schematics

This publication consists of schematics for product identified in the schematics. It is not intended as a substitute for a service manual, which is available from MATSUSHITA in CD or print format. For proper repair instructions it is necessary to consult the CD or print version of the full service manual.

Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

System	SC-HD550
Tuner	ST-HD550
Amplifier	SE-HD550
CD Player	SL-HD550
Cassette Deck	RS-HD550
Speakers*	SB-HD550

*: Made in Spain.

Specifications

Audio section

Track system: 4 track, 2 channel STEREO

Frequency response (Dolby NR off):

TYPE I (NORMAL); 30 Hz – 16 kHz (DIN)

TYPE II (HIGH); 30 Hz – 16 kHz (DIN)

TYPE IV (METAL); 30 Hz – 16 kHz (DIN)

S/N (Signal level=max recording level, TYPE II):

NR off; 56 dB (A weighted)

Dolby B NR; 64 dB (A weighted)

Motor

Capstan drive: DC servo motor

Reel table drive: DC motor

Fast forward and rewind times (C-60): Approx. 90 seconds

Wow and flutter: 0.1% (WRMS)

General

Dimensions (W×H×D):

210×104.8×241 mm

Mass:

1.6 kg

Notes: Specifications are subject to change without notice.
Mass and dimensions are approximate.

Manufactured under license from Dolby Laboratories.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

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1 Schematic Diagram Notes

- This schematic diagram may be modified at any time with the development of new technology.

Notes:

S803:	Cassette holder open detect switch
S804:	Cassette holder close detect switch
S900:	Stop switch (■)
S901:	Rewind switch (◀◀)
S902:	Reverse side playback switch (◀)
S903:	Forward side playback switch (▶)
S904:	Fast forward switch (▶▶)
S905:	Record pause switch (● REC PAUSE)
S906:	Cassette tray open/close switch (▲ OPEN/CLOSE)
S907:	Reverse mode select switch (REV MODE)
S908:	Dolby noise reduction switch (DOLBY NR)
S909:	Counter switch (COUNTER)
S910:	Counter reset switch (RESET)
S911:	Tape Program Sensor switch (TPS SKIP)
S971:	Mode detect switch
S972:	Half detect switch
S973:	ATS/CrO2 detect switch
S974:	Reverse record inhibit switch
S975:	Forward record inhibit switch
S976:	ATS/METAL detect switch
VR102:	Playback gain adjustment VR (R ch)
VR103:	Playback gain adjustment VR (L ch)
VR803:	Tape speed adjustment VR

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

No mark : Playback
() : Recording

- Important safety notice:

Components identified by △ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- The supply part number is described alone in the replacement parts list.

• Caution!

IC and LSI are sensitive to static electricity.

- Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

Put a conductive mat on the work table.

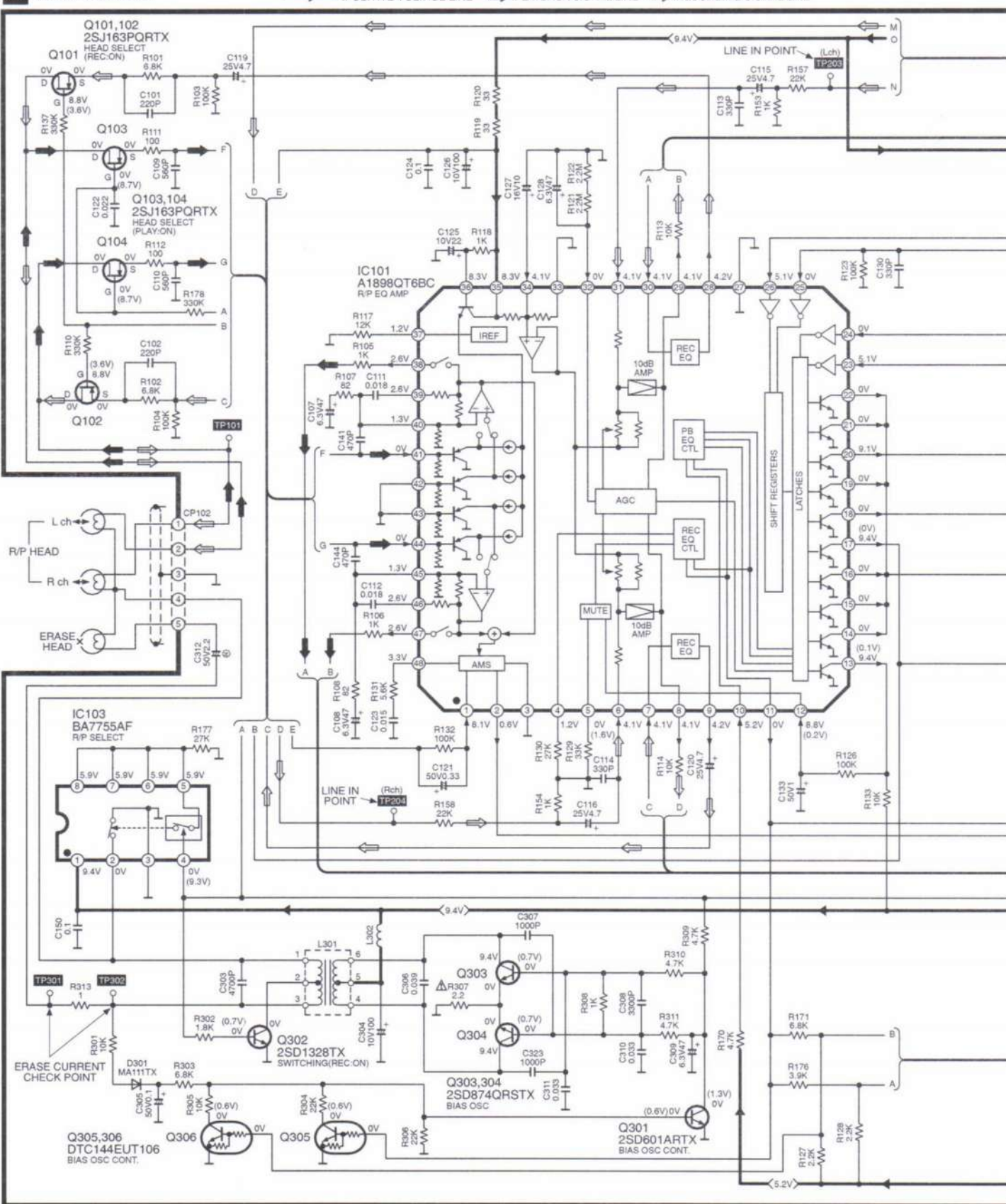
Do not touch the legs of IC or LSI with the fingers directly.

- Voltage and signal line

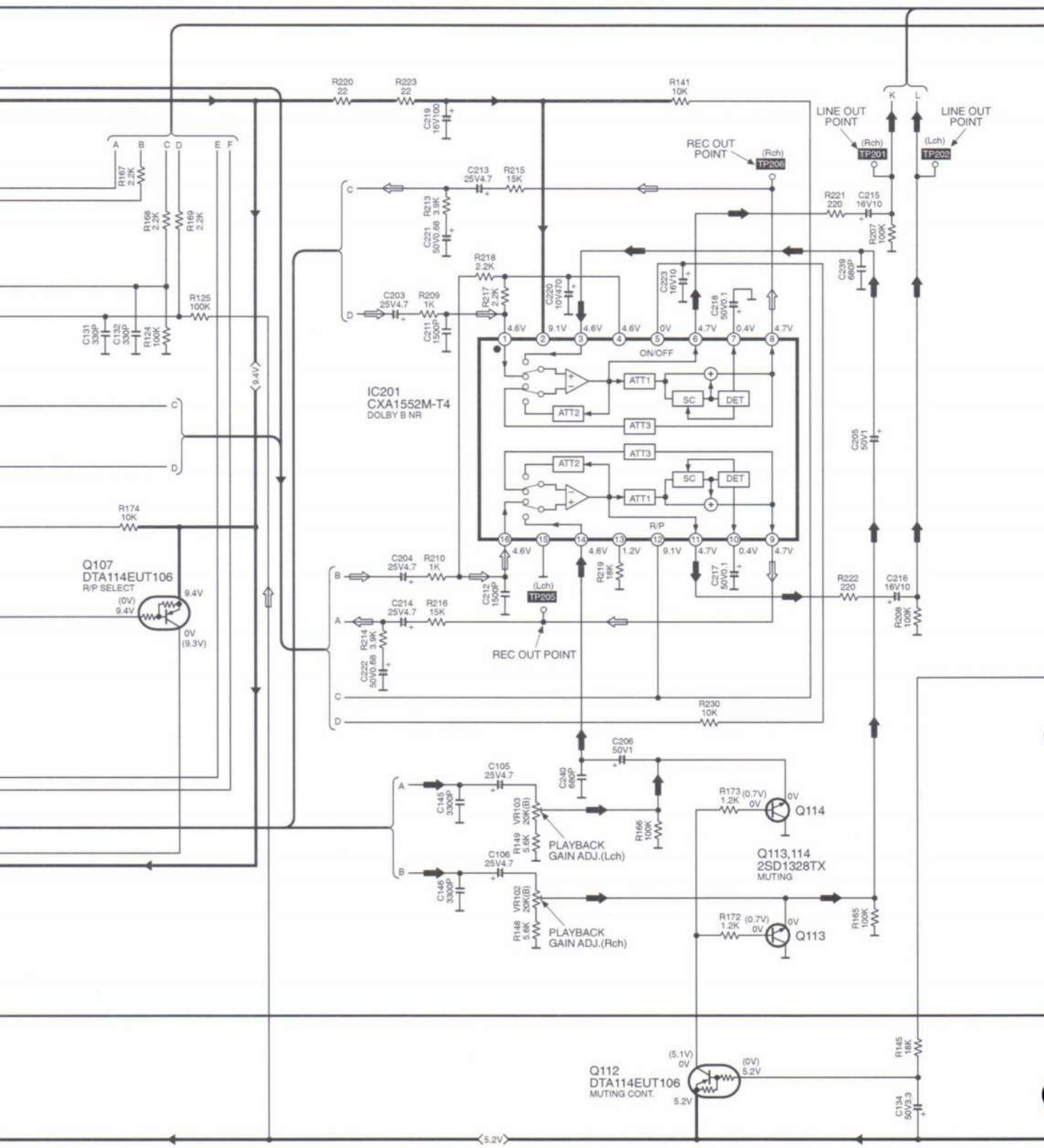


2 Schematic Diagram

A MAIN CIRCUIT

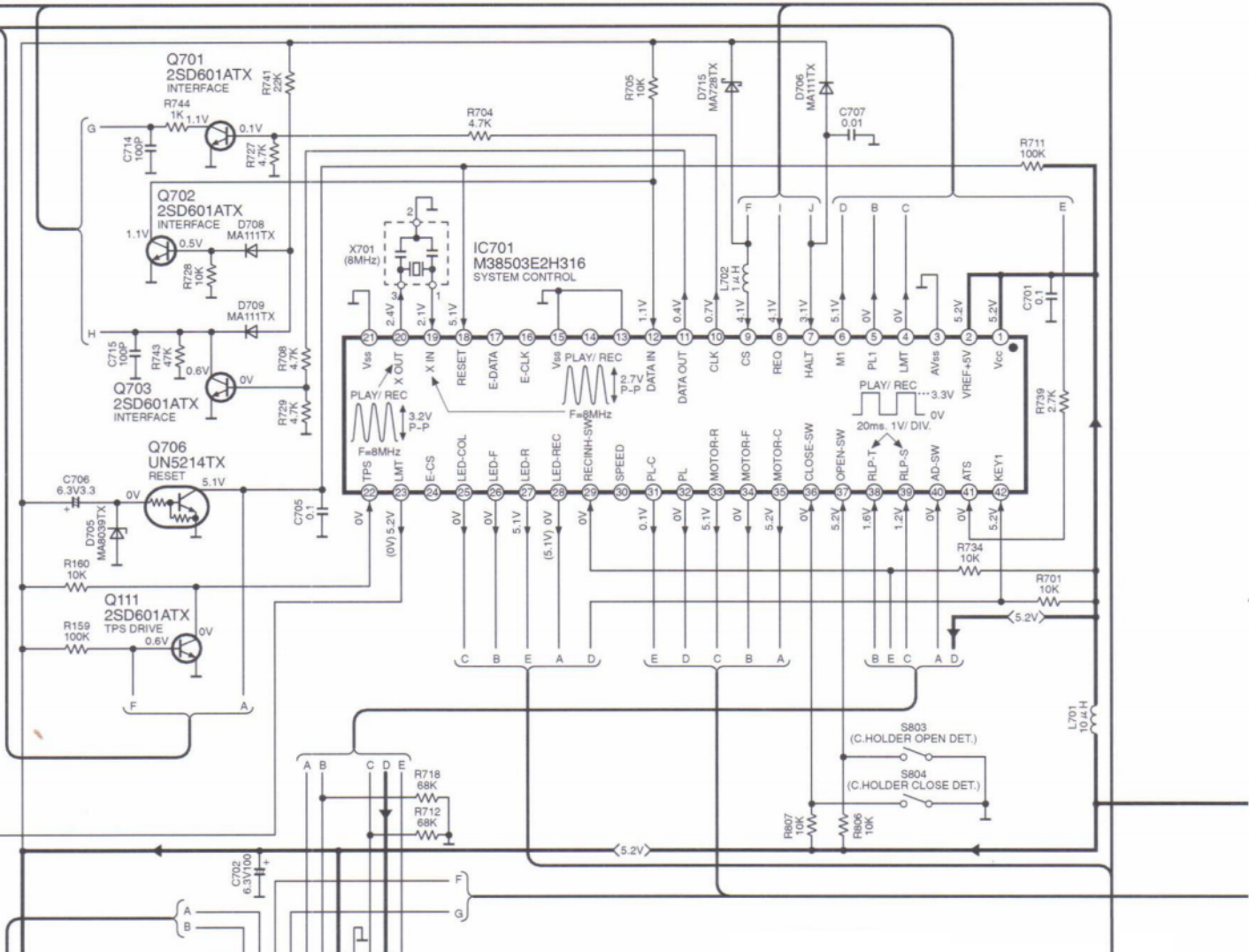


→ : POSITIVE VOLTAGE LINE ⇨ : PLAYBACK SIGNAL LINE ⇩ : RECORDING SIGNAL LINE

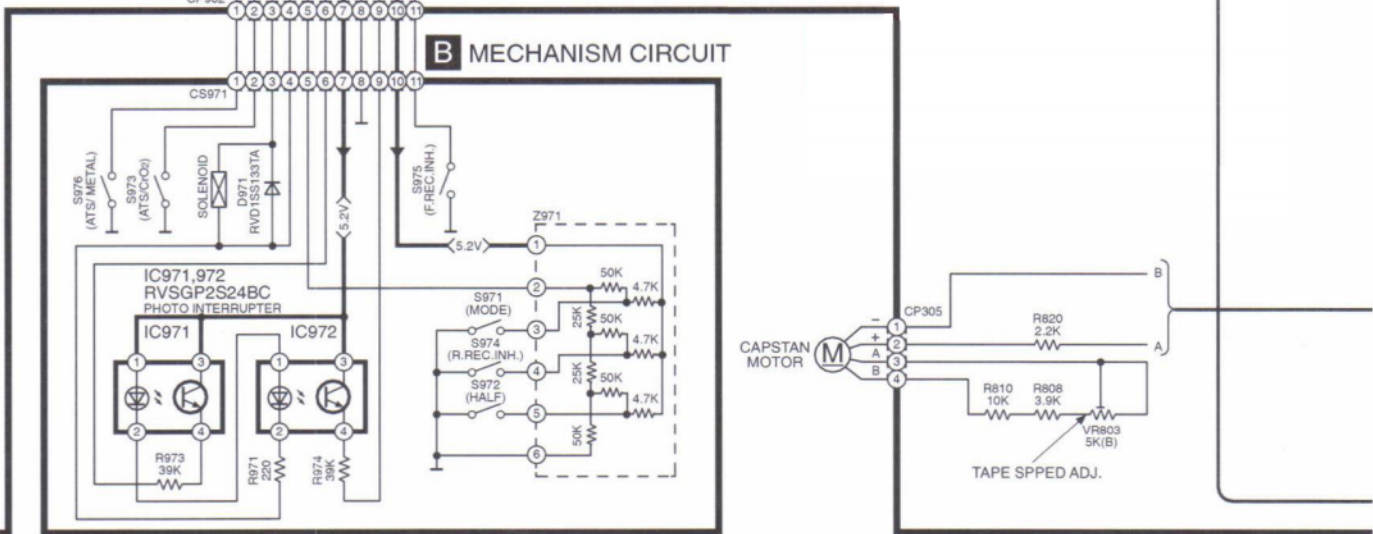


A MAIN CIRCUIT

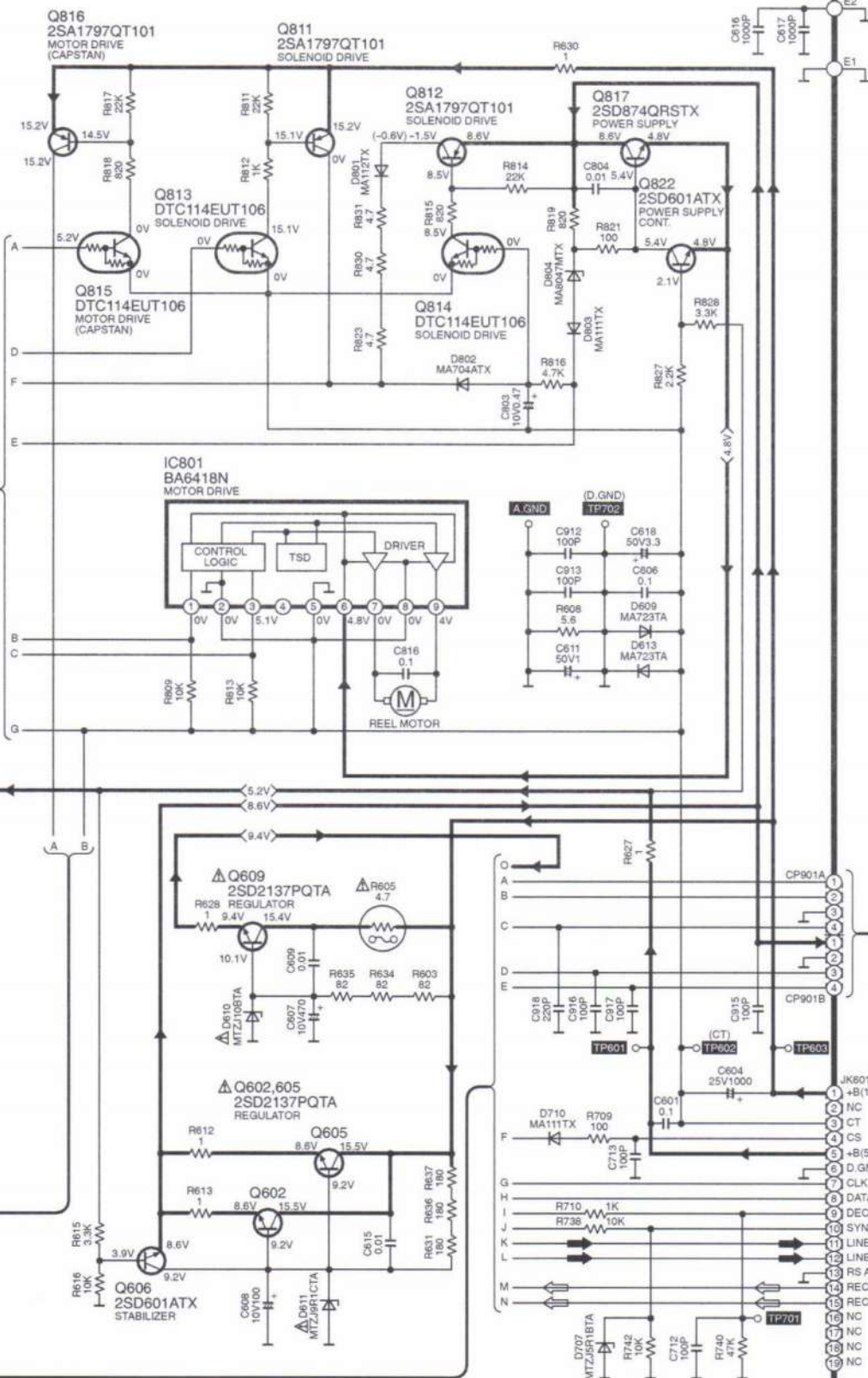
→ : POSITIVE VOLTAGE LINE



B MECHANISM CIRCUIT



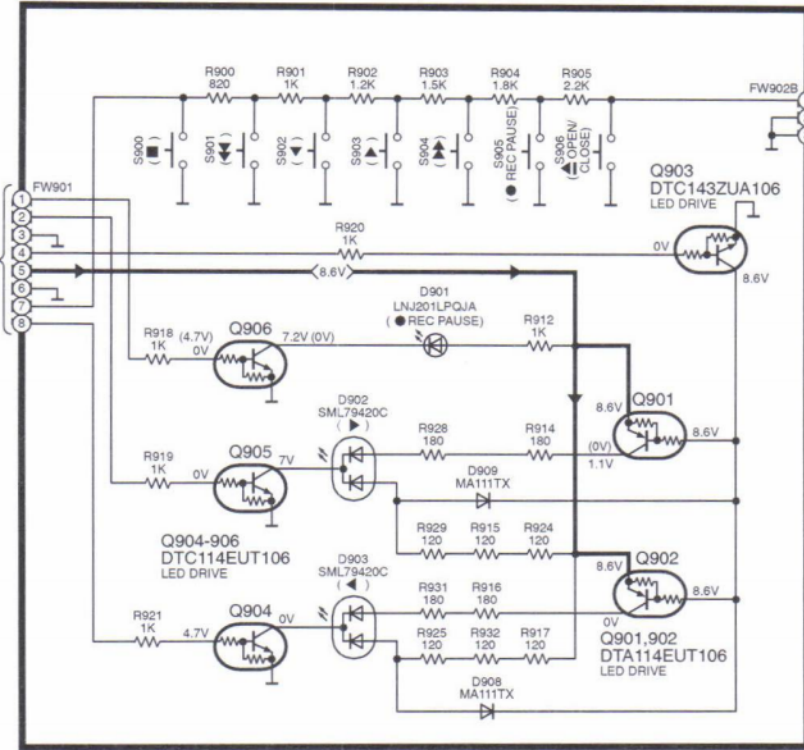
→ : POSITIVE VOLTAGE LINE ➡ : PLAYBACK SIGNAL LINE ⇨ : RECORDING SIGNAL LINE



To TUNER (ST-HD550) & CD PLAYER (SL-HD550)

C OPERATION(1) CIRCUIT

→ : POSITIVE VOLTAGE LINE



D OPERATION(2) CIRCUIT

