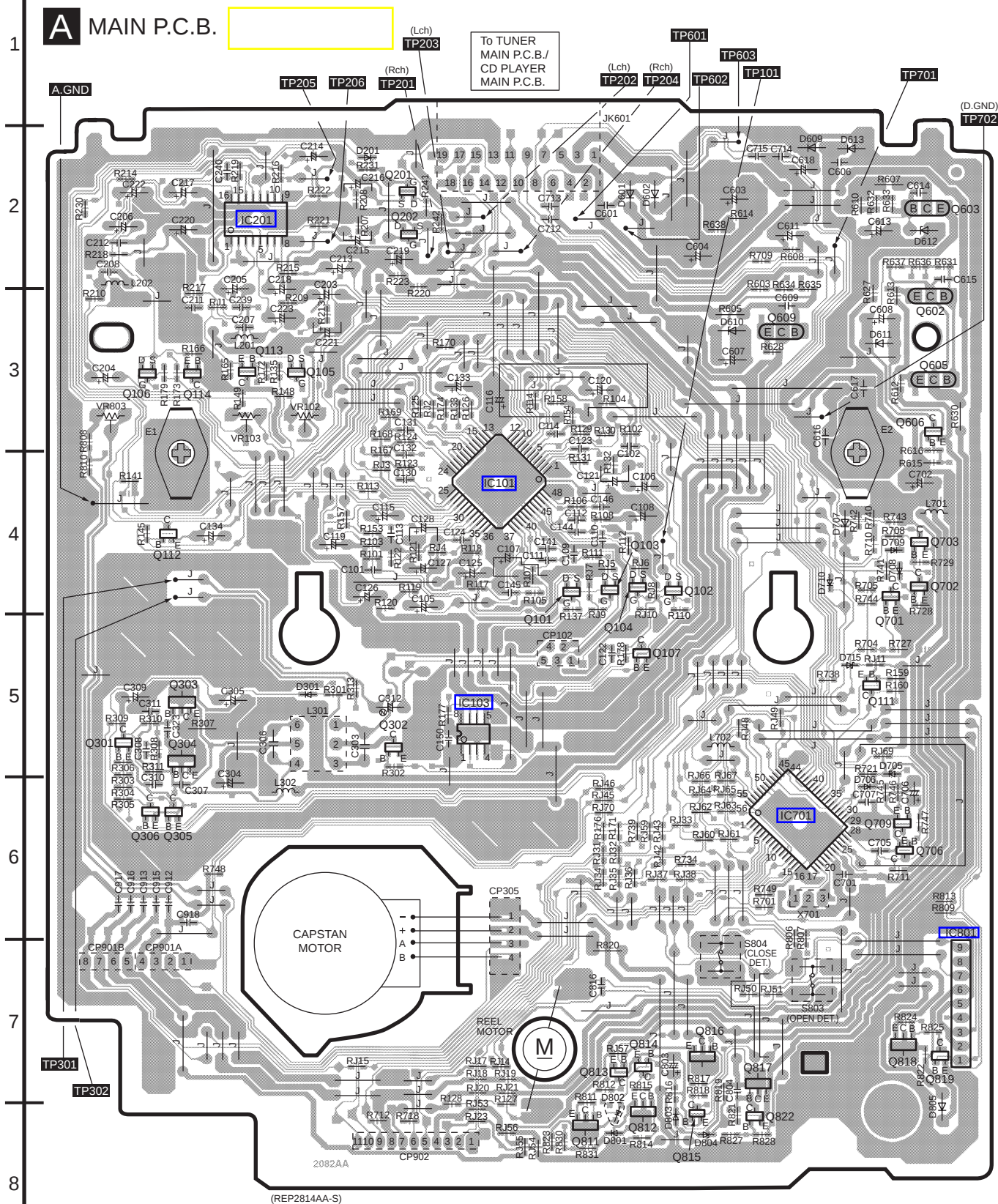


A MAIN P.C.B.



G

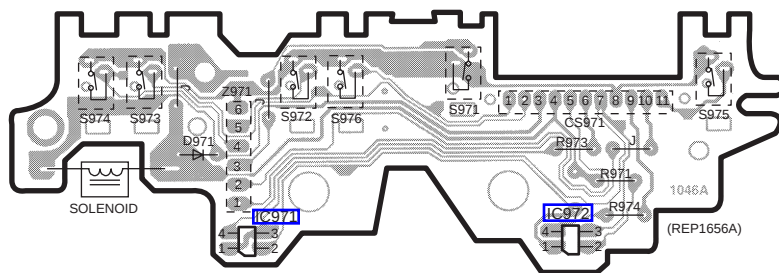
H

I

J

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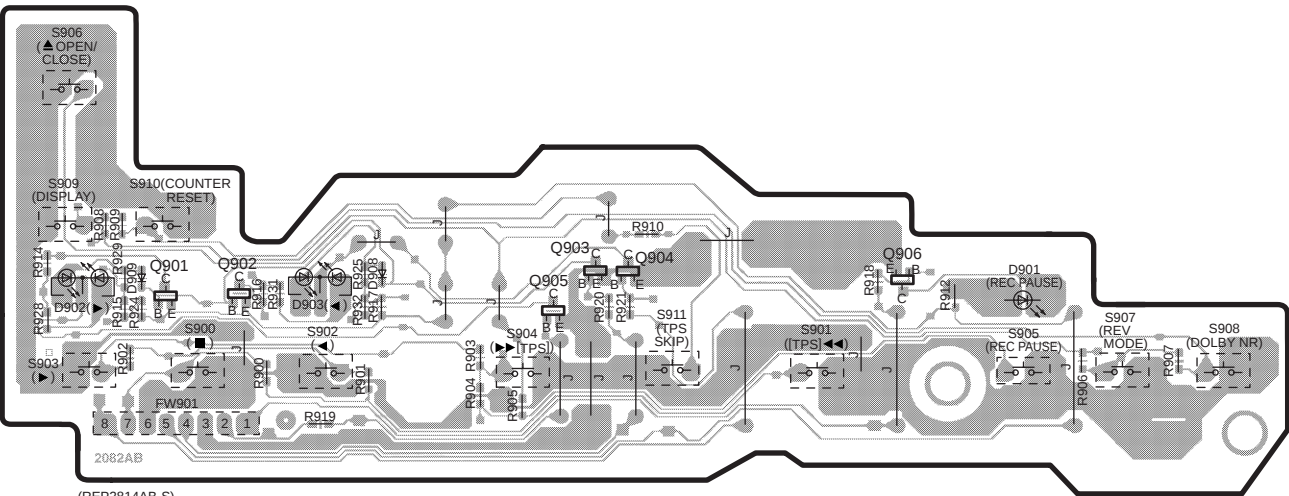
L

B MECHANISM P.C.B.**ELECTRICAL PARTS LOCATION**

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
A MAIN P.C.B.															
IC101	4C	D612	2F	R106	4D	R207	2C	R638	2E	RJ1	3B	C101	4C	C222	2A
IC103	5C	D613	2F	R107	4D	R208	2C	R701	6E	RJ2	3C	C102	3D	C223	3B
IC201	2B	D705	5F	R108	4D	R209	3B	R704	5F	RJ3	4C	C105	4C	C239	3B
IC701	6E	D706	6F	R110	4E	R210	3A	R705	4F	RJ4	4C	C106	4D	C240	2B
IC801	7F	D707	4F	R111	4D	R213	3B	R708	4F	RJ5	4D	C107	4D	C303	5C
Q101	4D	D708	4F	R112	4D	R214	2A	R709	2E	RJ6	4D	C108	4D	C304	6B
Q102	4D	D709	4F	R113	4C	R215	2B	R710	4F	RJ7	4D	C109	4D	C305	5B
Q103	4D	D710	4E	R114	3D	R216	2B	R711	6F	RJ8	4D	C110	4D	C306	5B
Q104	4D	D715	5F	R117	4C	R217	3B	R712	8C	RJ9	4D	C111	4D	C307	6A
Q105	3B	D801	8D	R118	4C	R218	2A	R718	8C	RJ10	4D	C112	4D	C308	5A
Q106	3A	D802	8D	R119	4C	R219	2B	R721	5F	RJ11	5F	C113	4C	C309	5A
Q107	5D	D803	8D	R120	4C	R220	2C	R727	5F	RJ14	7C	C114	3D	C310	6A
Q111	5F	D804	8E	R121	4C	R221	2B	R728	4F	RJ15	7C	C115	4C	C311	5A
Q112	4A	D805	8F	R122	4C	R222	2B	R729	4F	RJ17	7C	C116	3D	C312	5C
Q113	3B	VR102	3B	R123	4C	R223	2C	R734	6E	RJ18	7C	C119	4B	C323	5A
Q114	3B	VR103	3B	R124	3C	R230	2A	R738	5E	RJ19	7C	C120	3D	C601	2D
Q201	2C	VR803	3A	R125	3C	R231	2C	R739	6D	RJ20	7C	C121	4D	C603	2E
Q202	2C	L201	3B	R126	3C	R241	2C	R740	4F	RJ21	7C	C122	5D	C604	2E
Q301	5A	L202	2A	R127	7C	R242	2C	R741	4F	RJ23	8C	C123	3D	C606	2F
Q302	5C	L301	5B	R128	7C	R301	5B	R742	4F	RJ31	6D	C124	4C	C607	3E
Q303	5A	L302	6B	R129	3D	R302	5C	R743	4F	RJ32	6D	C125	4C	C608	3F
Q304	5A	L701	4F	R130	3D	R303	5A	R744	4F	RJ33	6E	C126	4C	C609	3E
Q305	6A	L702	5E	R131	4D	R304	6A	R745	6F	RJ34	6D	C127	4C	C611	2E
Q306	6A	X701	6E	R132	4D	R305	6A	R746	6F	RJ35	6D	C128	4C	C613	2F
Q602	3F	S803	7E	R133	3C	R306	5A	R747	6F	RJ36	6D	C130	4C	C614	2F
Q603	2F	S804	7E	R135	3B	R307	5B	R748	6B	RJ37	6D	C131	3C	C615	2F
Q605	3F	CP102	5D	R137	4D	R308	5A	R749	6E	RJ38	6E	C132	4C	C616	3E
Q606	3F	CP305	6C	R141	4A	R309	5A	R806	6E	RJ42	6D	C133	3C	C617	3F
Q609	3E	CP901A	7A	R145	4A	R310	5A	R807	6E	RJ43	6D	C134	4B	C618	2E
Q701	4F	CP901B	7A	R148	3B	R311	5A	R808	3A	RJ45	6D	C141	4D	C701	6F
Q702	4F	CP902	8C	R149	3B	R313	5C	R809	6F	RJ46	6D	C144	4D	C702	4F
Q703	4F	JK601	2D	R153	4C	R603	2E	R810	4A	RJ48	5E	C145	4C	C705	6F
Q706	6F	TP101	4D	R154	3D	R605	3E	R811	7D	RJ49	5E	C146	4D	C706	6F
Q709	6F	TP201	2C	R157	4B	R607	2F	R812	7D	RJ50	7E	C150	5C	C707	6F
Q811	8D	TP202	2C	R158	3D	R608	2E	R813	6F	RJ51	7E	C203	3B	C712	2D
Q812	8D	TP203	2C	R159	5F	R610	2F	R814	8D	RJ53	8C	C204	3A	C713	2D
Q813	7D	TP204	2D	R160	5F	R612	3F	R815	7D	RJ54	8D	C205	2B	C714	2E
Q814	7D	TP205	2B	R165	3B	R613	3F	R816	7D	RJ55	8D	C206	2A	C715	2E
Q815	8E	TP206	2B	R166	3B	R614	2E	R817	7E	RJ56	8C	C207	3B	C803	7D
Q816	7E	TP301	4A	R167	4C	R615	4F	R818	7E	RJ57	7D	C208	2A	C804	7E
Q817	7E	TP302	4A	R168	3C	R616	3F	R819	7E	RJ59	6D	C211	3B	C816	7D
Q818	7F	TP601	2D	R169	3C	R627	3F	R820	7D	RJ60	6E	C212	2A	C912	6A
Q819	7F	TP602	2D	R170	3C	R628	3E	R821	8E	RJ61	6E	C213	2B	C913	6A
Q822	8E	TP603	2E	R171	6D	R630	3F	R822	7F	RJ62	6E	C214	2B	C915	6A
D201	2C	TP701	2E	R172	3B	R631	2F	R823	8D	RJ63	6E	C215	2C	C916	6A
D301	5B	TP702	3E	R173	3A	R632	2F	R824	7F	RJ64	6E	C216	2C	C917	6A
D601	2D	R101	4C	R174	3C	R633	2F	R825	7F	RJ65	6E	C217	2A	C918	6B
D602	2D	R102	3D	R176	6D	R634	2E	R827	8E	RJ66	6E	C218	2B	E1	3A
D609	2E	R103	4C	R177	5C	R635	2E	R828	8E	RJ67	6E	C219	2C	E2	3F
D610	3E	R104	3D	R178	5D	R636	2F	R830	8D	RJ69	5F	C220	2A		
D611	3F	R105	4D	R179	3A	R637	2F	R831	8D	RJ70	6D	C221	3B		
B MECHANISM P.C.B.															
IC971	2I	D971	2H	S971	2I	S973	2H	S975	2K	CS971	2J	R973	2J		
IC972	2J	Z971	2H	S972	2I	S974	2H	S976	2I	R971	2J	R974	2J		

C

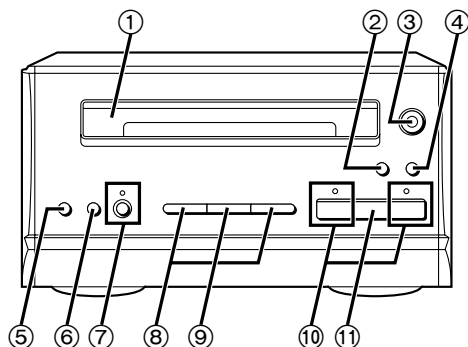
OPERATION P.C.B.



■ ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
Q901	3A	D902	3A	S903	3A	S910	2A	R904	3C	R912	3E	R920	3C	R932	3B
Q902	3B	D903	3B	S904	3C	S911	3D	R905	3C	R914	3A	R921	3D		
Q903	3C	D908	3B	S905	3E	FW901	3A	R906	3F	R915	3A	R924	3A		
Q904	3D	D909	3A	S906	2A	R900	3B	R907	3F	R916	3B	R925	3B		
Q905	3C	S900	3B	S907	3F	R901	3B	R908	2A	R917	3B	R928	3A		
Q906	3E	S901	3D	S908	3F	R902	3A	R909	2A	R918	3E	R929	3A		
D901	3E	S902	3B	S909	2A	R903	3C	R910	2D	R919	3B	R931	3B		

■ Front Panel Controls



- ① Cassette holder
- ② Counter reset button (COUNTER RESET)
- ③ Cassette holder open/close button (▲ OPEN/CLOSE)
- ④ Display button (DISPLAY)
- ⑤ Dolby noise reduction button (DOLBY NR)
- ⑥ Reverse mode select button (REV MODE)
- ⑦ Record pause button and indicator (REC PAUSE)
- ⑧ Fast forward/rewind/Tape Program Sensor buttons ([TPS] ◀◀, ▶▶[TPS])
- ⑨ TPS skip button (TPS SKIP)
- ⑩ Playback buttons and indicators (◀, ▶)

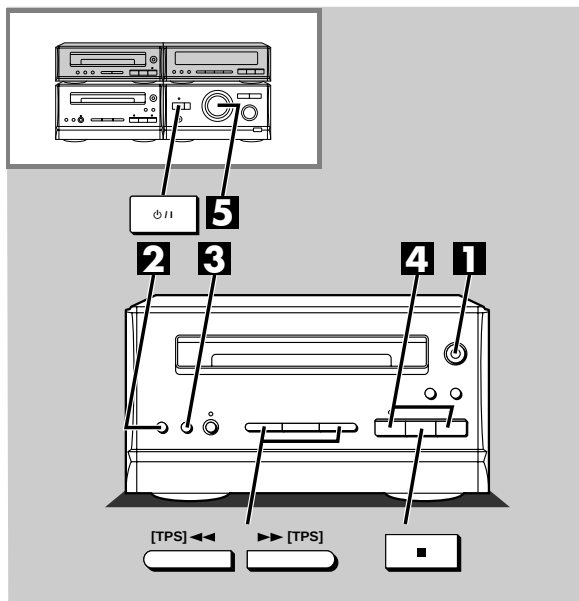
The color of the indicators depends on the operation taking place.

If stopped, fast forwarding or rewinding: orange

If playing, recording, or carrying out TPS: green

- ⑪ Stop button (■)

■ Listening to Tapes



Types of tapes which can be played correctly:

The unit automatically identifies the type of tape.

Normal position/TYPE I	○
High position/TYPE II	○
Metal position/TYPE IV	○

Preparation: Press [⏻/I] to turn the unit on.

1 Press [▲ OPEN/CLOSE] and insert the tape.

Load with the exposed side facing the cassette holder.

Insert until it touches the back of the compartment.

Press [▲ OPEN/CLOSE] once again to close the cassette holder.

2 Press [DOLBY NR] to select Dolby NR on or off.

“□□NR” appears when the Dolby NR system is on.

3 Press [REV MODE] to select the reverse mode.

Each time you press [REV MODE], one of the indicators will appear.

↔: The deck plays one side only.

↔↔: The deck plays both sides.

↔↔↔: The deck plays both sides 8 times.

4 Press [◀] or [▶].

Play begins and the lamp changes to green.

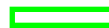
▶: The forward side will play.

◀: The reverse side will play.

5 Adjust the volume.

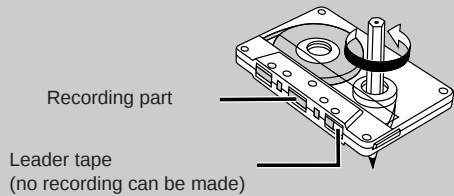
To stop tape playback:

Press [■].

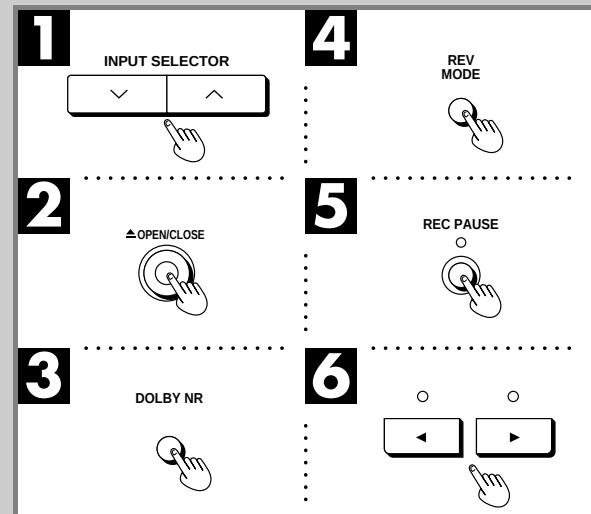
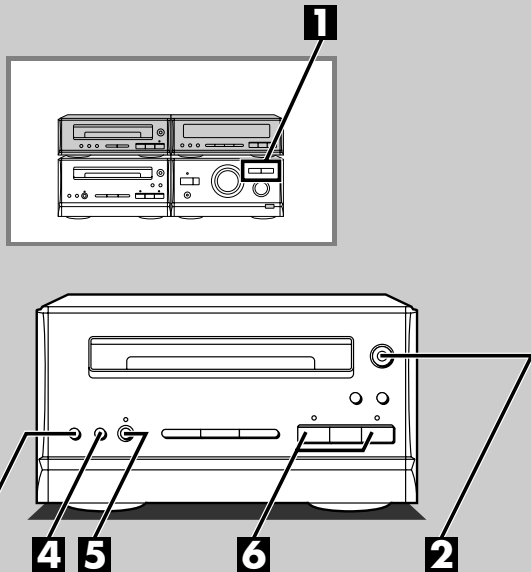


■ Before Recording

A



B



Types of tapes which can be recorded correctly

The unit automatically identifies the type of tape.

Normal position/TYPE I	○
High position/TYPE II	○
Metal position/TYPE IV	○

How to advance the leader tape

Wind the leader tape forward so that recording can start as soon as you press the button. This is not necessary if one-touch editing from CDs.

About Dolby noise-reduction system

The Dolby noise-reduction system is designed to effectively reduce the annoying high-frequency “hissing” noise typical of cassette tapes. During recording, the system functions to increase the high-frequency sound level, the sound, and then, during playback, that same portion is weakened to bring it back to the previous level. This unit is equipped with the Dolby B NR-type.

Dolby B-type noise reduction:

Noise is reduced to about one-third.

Use this system when playing back tapes recorded by the Dolby-B noise-reduction system, such as prerecorded music tapes, etc.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
“DOLBY” and the double-D symbol **DD** are trademarks of Dolby Laboratories Licensing Corporation.

Volume and sound quality in recording

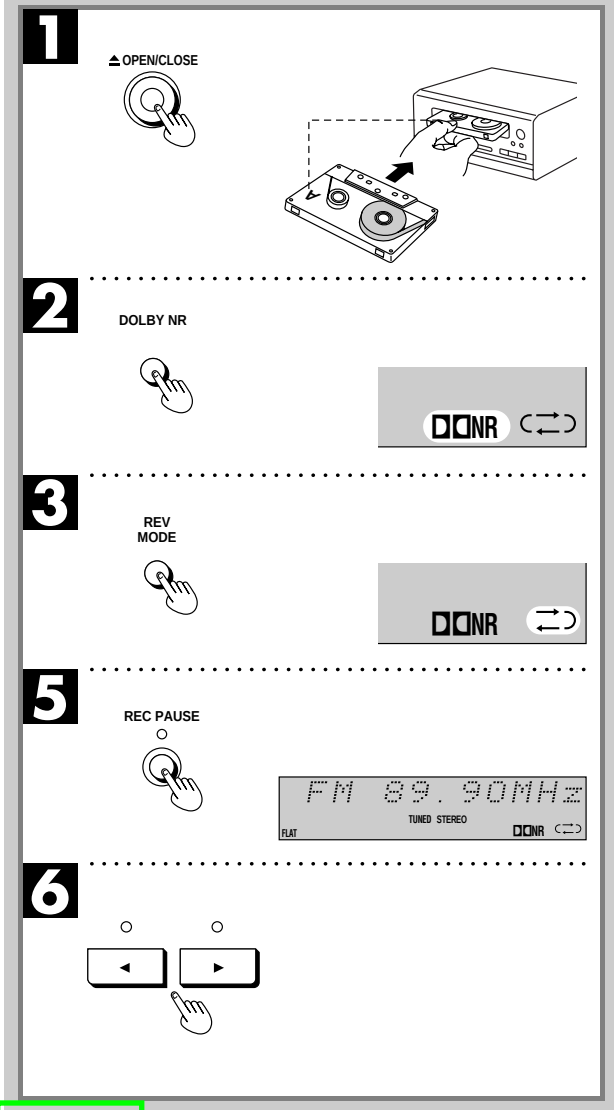
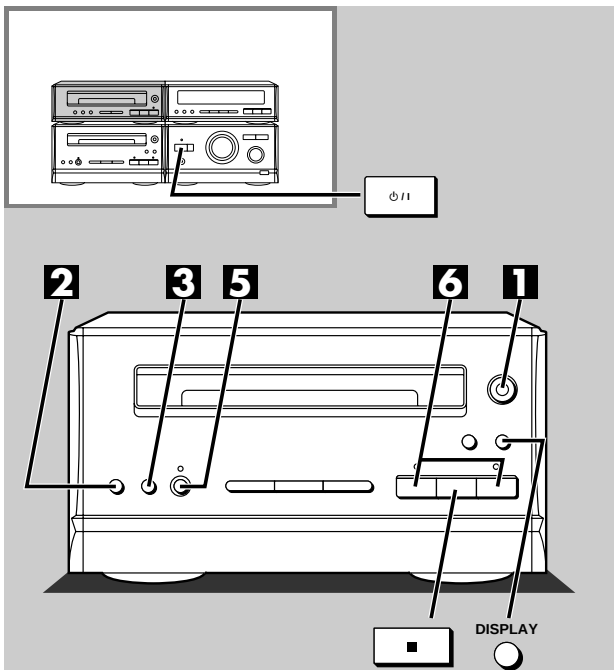
Changes to volume or sound quality are not recorded.

To erase recorded sounds

- 1 Press [INPUT SELECTOR (v or ^)] on the amplifier to select “TAPE”.
- 2 Insert the recorded tape into deck.
- 3 Press [DOLBY NR] so that the Dolby NR indicator (“**DDNR**”) goes off.
- 4 Press [REV MODE] to select reverse mode.
- 5 Press [REC PAUSE].
REC PAUSE indicator will light.
- 6 Press [◀] or [▶], whichever side you want to erase.

Your attention is drawn to the fact that recording pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

■ Recording from Radio Broadcasts



Preparation:

- Press [⏻/⏻] to turn the unit on.
- Advance the tape to a point from where recording can start immediately.

1 Press [▲ OPEN/CLOSE] and insert the tape.

Load with the exposed side facing the cassette holder. Insert until it touches the back of the compartment. Press [▲ OPEN/CLOSE] once again to close the holder.

2 To record in Dolby B NR: Press [DOLBY NR] so "DOLBY NR" is displayed.

3 Press [REV MODE] to select the reverse mode.

⏮: One side will record.
⏮⏭: Both sides will record (forward side→reverse side).

4 Tune in the desired station.

5 Press [REC PAUSE] to put the cassette deck into the recording standby mode.

REC PAUSE indicator will light.
The playback indicators above [⏮] or [⏭] will start flashing.
If you select "⏮⏭" in step 3, the direction will automatically change to "⏮⏭" when you press [REC PAUSE].

6 Press [⏮] or [⏭] to start recording.

⏭: To begin recording from the forward side.
⏮: To begin recording from the reverse side.

To stop recording:

Press [■].

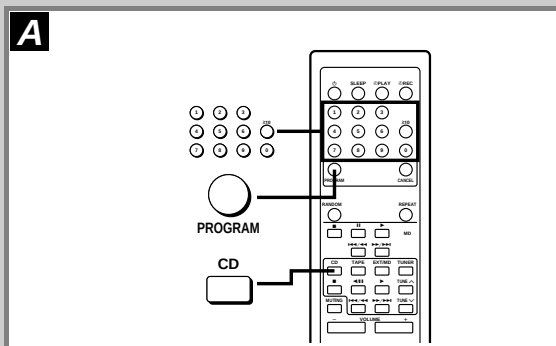
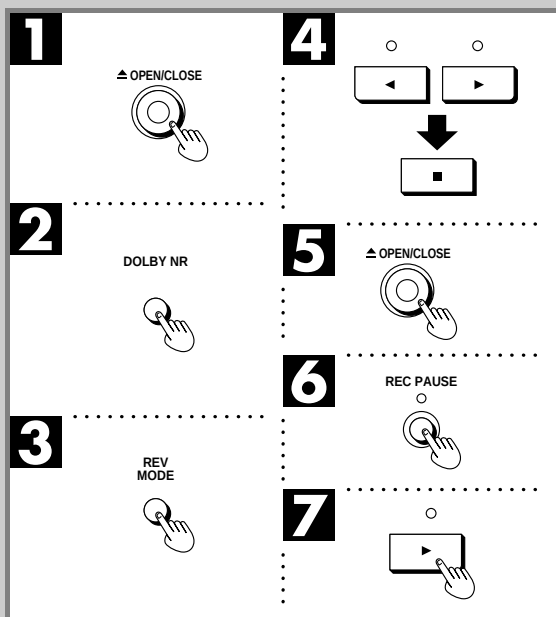
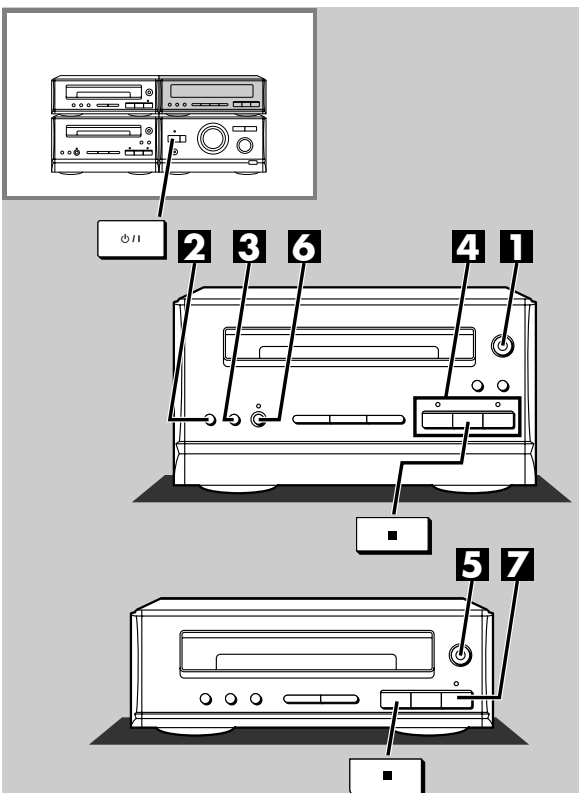
To display the tape counter while recording:

Press [DISPLAY].
The tape counter will be displayed for approximately 5 seconds.
This is a useful way for knowing what point of the tape you're at.

To cut an unnecessary part while recording:

1. Press [REC PAUSE].
The cassette deck will go into the recording standby state.
2. To resume recording, press [⏮] or [⏭], whichever playback indicator is flashing.

Recording from Compact Discs



Normal recording

Preparation:

- Press [P/I] to turn the unit on.
- Advance the tape to a point from where recording can start immediately.

1 Press [▲ OPEN/CLOSE] and insert the tape.

Load with the exposed side facing the cassette holder.
Insert until it touches the back of the compartment.
Press [▲ OPEN/CLOSE] once again to close the holder.

2 To record in Dolby B NR: Press [DOLBY NR] so "DOLBY NR" is displayed.

3 Press [REV MODE] to select the reverse mode.

- ↔: One side will record.
- ↔↔: Both sides will record (forward side→reverse side).

4 Set the tape travel direction.

To change the tape travel direction, first press [◀] or [▶] on the cassette deck, then press [■].
▶: Recording from the forward side
◀: Recording from the reverse side

5 Insert a CD in the tray.

6 Press [REC PAUSE] to put the cassette deck into the recording standby mode.

REC PAUSE indicator will light.
If you select "↔↔" in step 3, the direction will automatically change to "↔" when you press [REC PAUSE].

7 Press [▶] on the CD player.

Recording will automatically start corresponding to the tape travel direction.

Approximately 4 seconds after the CD finishes playing, the cassette deck will automatically put recording on standby.

To stop recording:

•To add a 4 second silent interval before stopping

Press [■] on the CD player.

The cassette deck will go into the recording standby state.

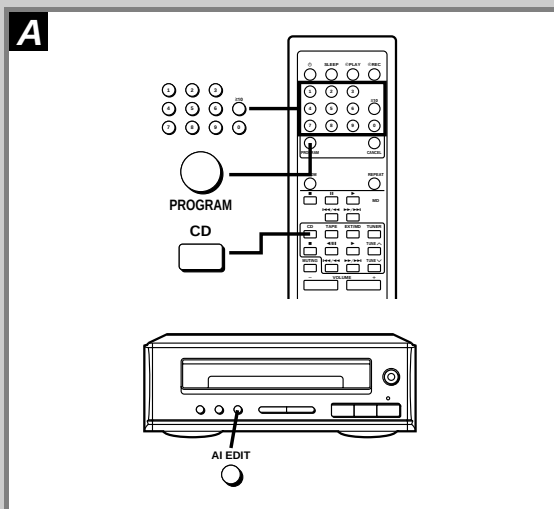
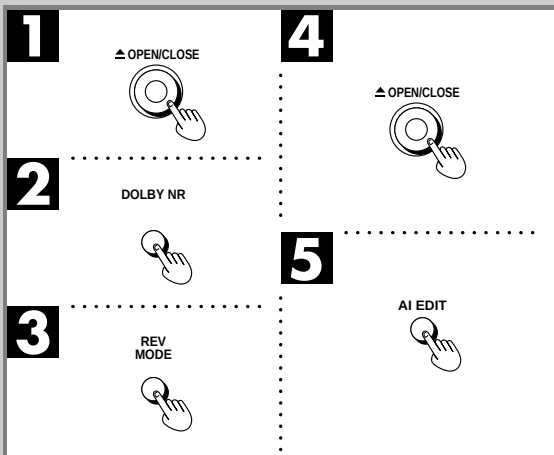
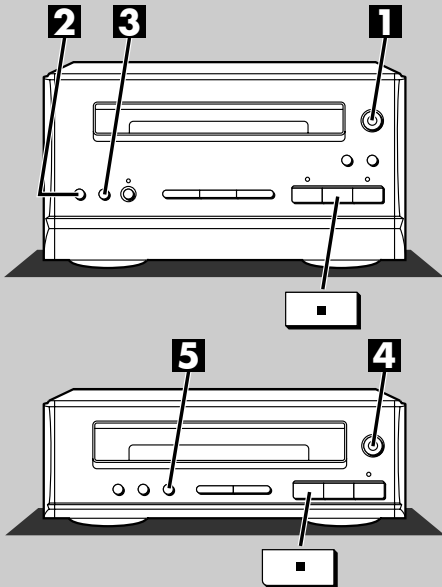
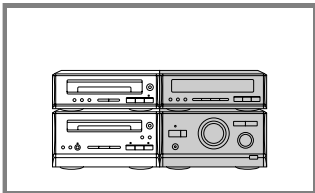
•To stop recording without a silent interval

Press [■] on the cassette deck.

The CD player will not stop.

To record programmed tracks A

- 1 Perform steps 1 – 5 above, and then press [CD] on the remote control.
- 2 Press [PROGRAM] on the remote control.
- 3 Select the track number from the remote control with the numeric button(s).
- 4 Repeat step 3 until you have programmed all tracks (max. 24 tracks).
- 5 Perform steps 6 and 7 above.



One-touch editing (AI EDIT)

The deck measures the tape and calculates which tracks go on which side of the tape so no tracks get cut off at the end of either side.

Recording starts from the first track on the disc and continues through to the last track.

For your reference:

It is better to use a tape slightly longer than the CD playing time when recording.

One-touch editing automatically positions the leader tape.

1 Press [▲ OPEN/CLOSE] and insert the tape.

Load with the exposed side facing the cassette holder.

Insert until it touches the back of the compartment.

Press [▲ OPEN/CLOSE] once again to close the holder.

2 To record in Dolby B NR:

Press [DOLBY NR] so "DOLBY NR" is displayed.

3 Press [REV MODE] to select the reverse mode.

↔: One side will record.

↔↔: Both sides will record (forward side→reverse side).

4 Insert a CD in the tray.

5 Press [AI EDIT] on the CD player.

The deck will rewind the tape and recording will start. In the meantime, "AI EDIT TAPE" will scroll across the display from right to left. It will take a moment for recording to actually begin.

If you select "↔↔" in step 3, the direction will automatically change to "↔" when you press [AI EDIT].

To stop one-touch editing:

Press [■] on the cassette deck.

The CD player will also stop.

"EDIT OUT" will scroll across the display from right to left.

When tracks are allotted to both sides:

When the tracks allotted to side A finish playing, the deck records to the end of the side to complete calculation.

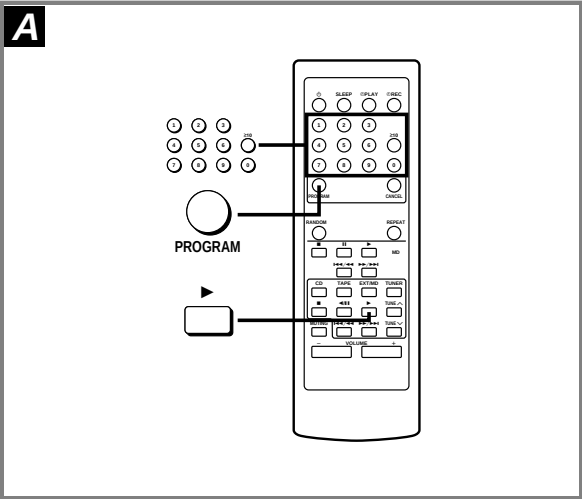
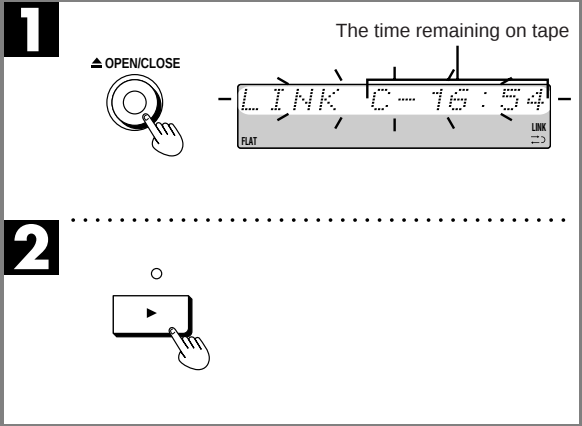
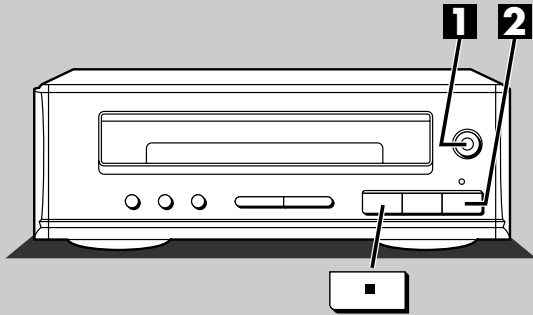
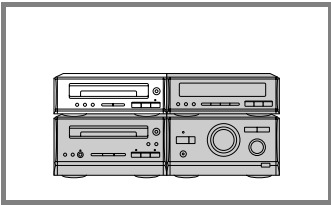
After edit-recording has finished:

The tape deck automatically puts recording on standby. In the meantime, if "LINK" flashes on the display, there is enough space on the tape that you can continue recording from another CD.

If you want to link the tracks, do not press [■] on the CD player.

To edit-record programmed tracks A

- 1 Perform steps 1 – 4 above, and then press [CD] and [PROGRAM] on the remote control.
- 2 Select the track number from the remote control with the numeric buttons.
- 3 Repeat step 2 until you have programmed all tracks (max. 24 tracks).
- 4 Press [AI EDIT] on the CD player. Recording will begin.



Recording onto left over space on tapes (LINK)

After the edit-recording of a CD has finished, you can subsequently edit-record other CD(s) on the remaining blank portion of the tape.

You can link up another CD when "LINK" flashes after editing a CD.

1 Press [△ OPEN/CLOSE] to replace the CD.

Press [△ OPEN/CLOSE] to close the tray.

2 Press [▶].

Linking will start.

As long as there is space on the tape to record, when recording has finished, the cassette deck will put linking on standby.

To continue linking tracks:

Repeat steps 1 and 2.

To cancel the LINK function:

Press [■] on the CD player.

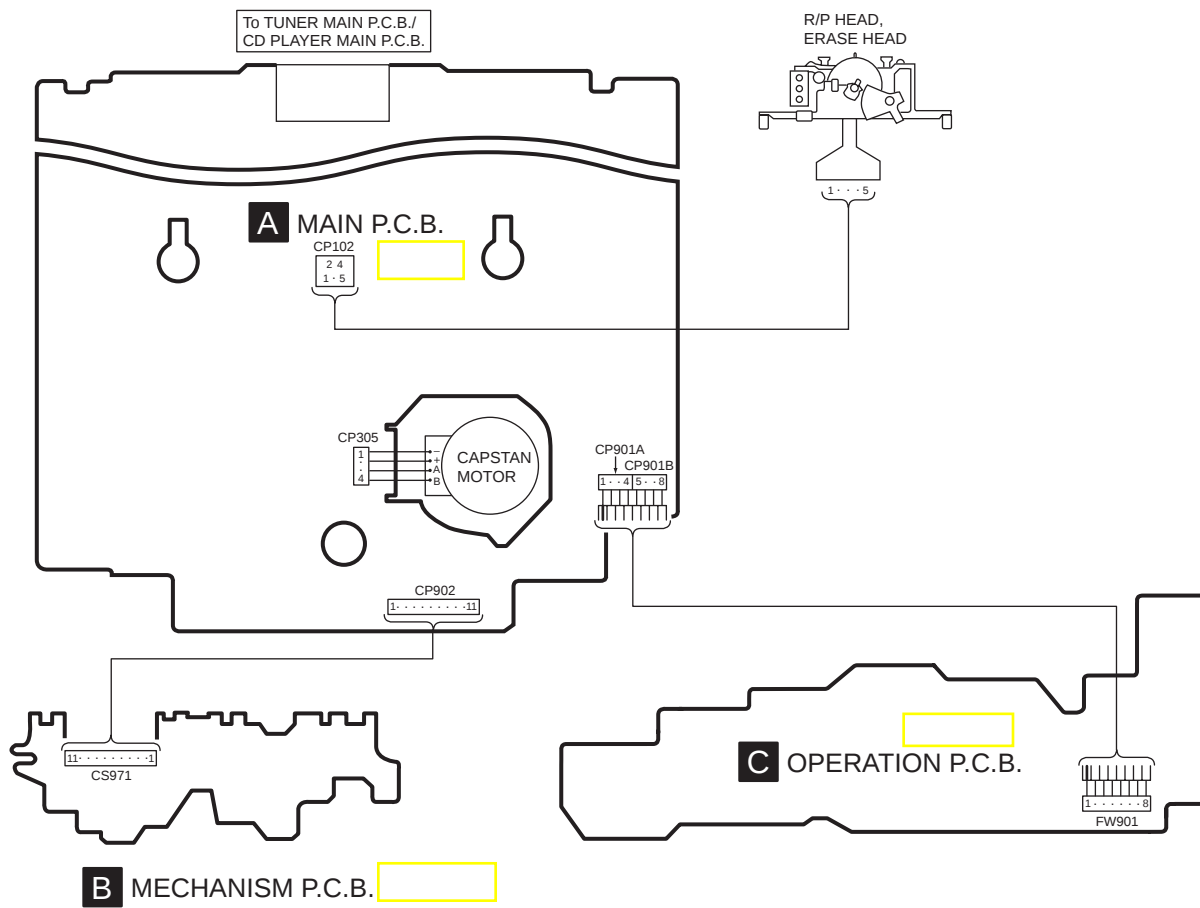
"EDIT OUT" will scroll across the display from right to left.

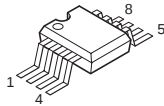
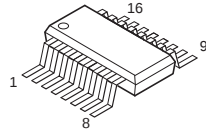
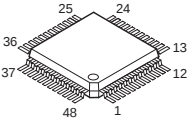
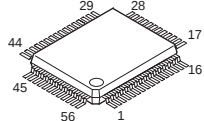
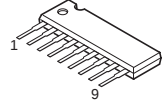
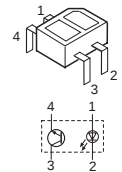
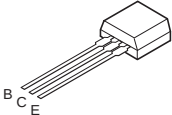
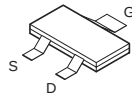
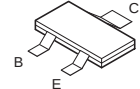
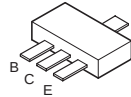
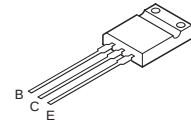
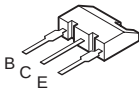
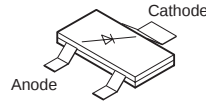
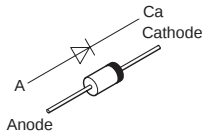
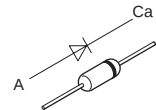
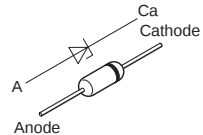
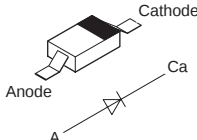
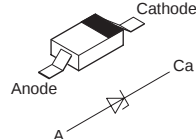
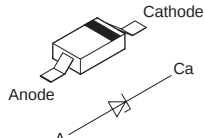
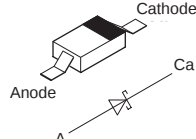
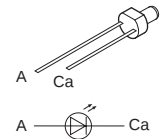
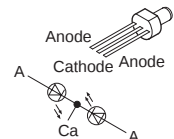
Note

Linking cannot be done if the time remaining on the cassette is too short to fit any of the songs on the loaded CD.

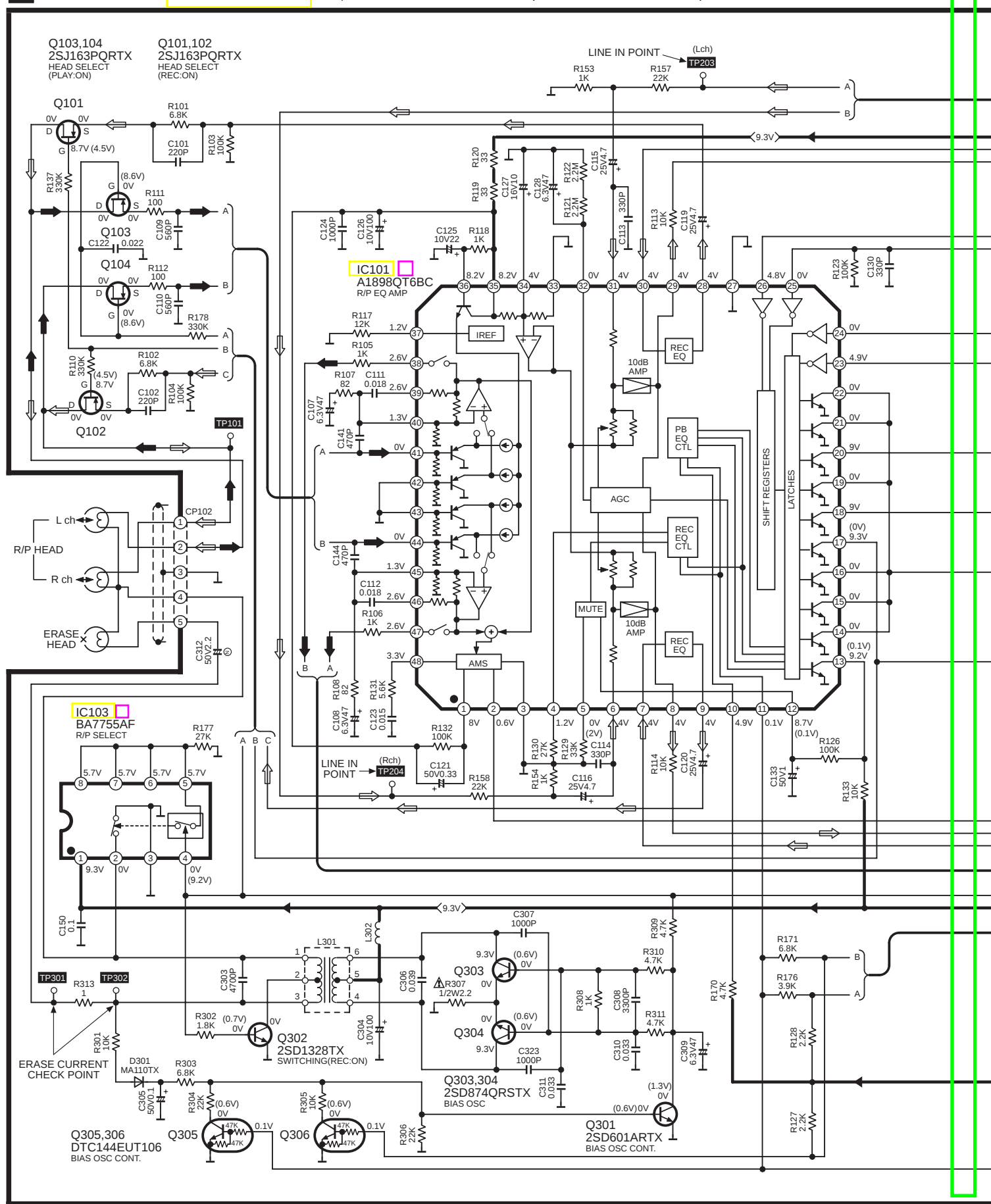
Linking programmed tracks A

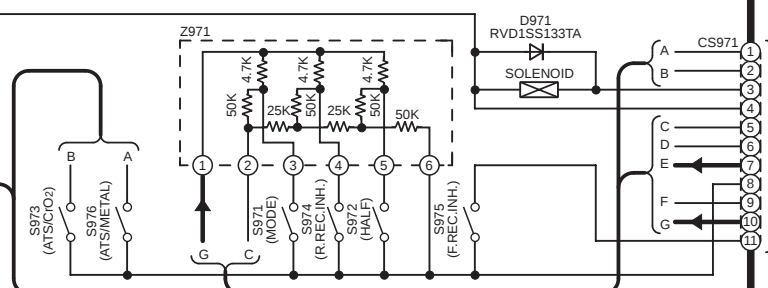
- ① Perform step 1 above, and then press [PROGRAM] on the remote control.
- ② Select the track number from the remote control with the numeric button(s).
- ③ Repeat step ② until you have programmed all tracks (max. 24 tracks).
- ④ Press [▶]. Linking will begin.



BA7755AF 	CXA1552M-T4 	A1898QT6BC 	M37478M4458F 	BA6418N 	RVSGP2S24BC 
 DTA114EUT106 DTC114EUT106 DTC143ZUA106 DTC144EUT106	2SJ106GBT85L 2SJ163PQRTX 	2SD1328TX 2SD601ATX 2SD601ARTX UN5214TX 	2SA1797QT101 2SD874QRSTX 	2SD2137PQTA 	
2SD1862QRTV6 	MA704ATX 	RL1N4003N02 	RVD1SS133TA MA723TA 	 MTZJ10BTA MTZJ5R1BTA MTZJ5R6BTA MTZJ9R1CTA	
MA110TX MA112TX 	MA8039TX 	MA8047MTX 	MA728TX 	SLR-305VC 	SPR-305MDTF 

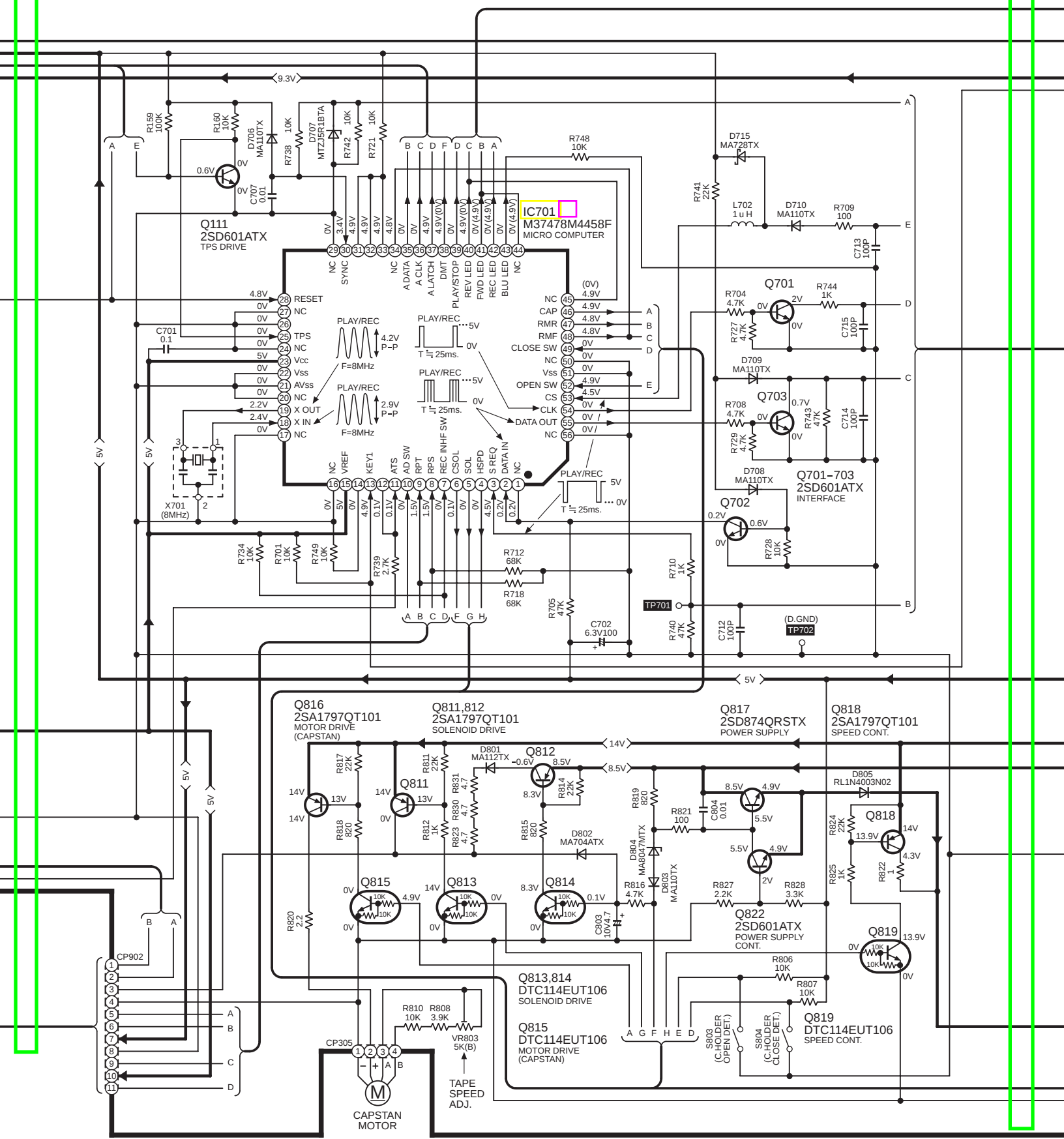
→ : POSITIVE VOLTAGE LINE ⇨ : RECORDING SIGNAL LINE ➡ : PLAYBACK SIGNAL LINE





A MAIN CIRCUIT

→ : POSITIVE VOLTAGE LINE



C OPERATION CIRCUIT

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

