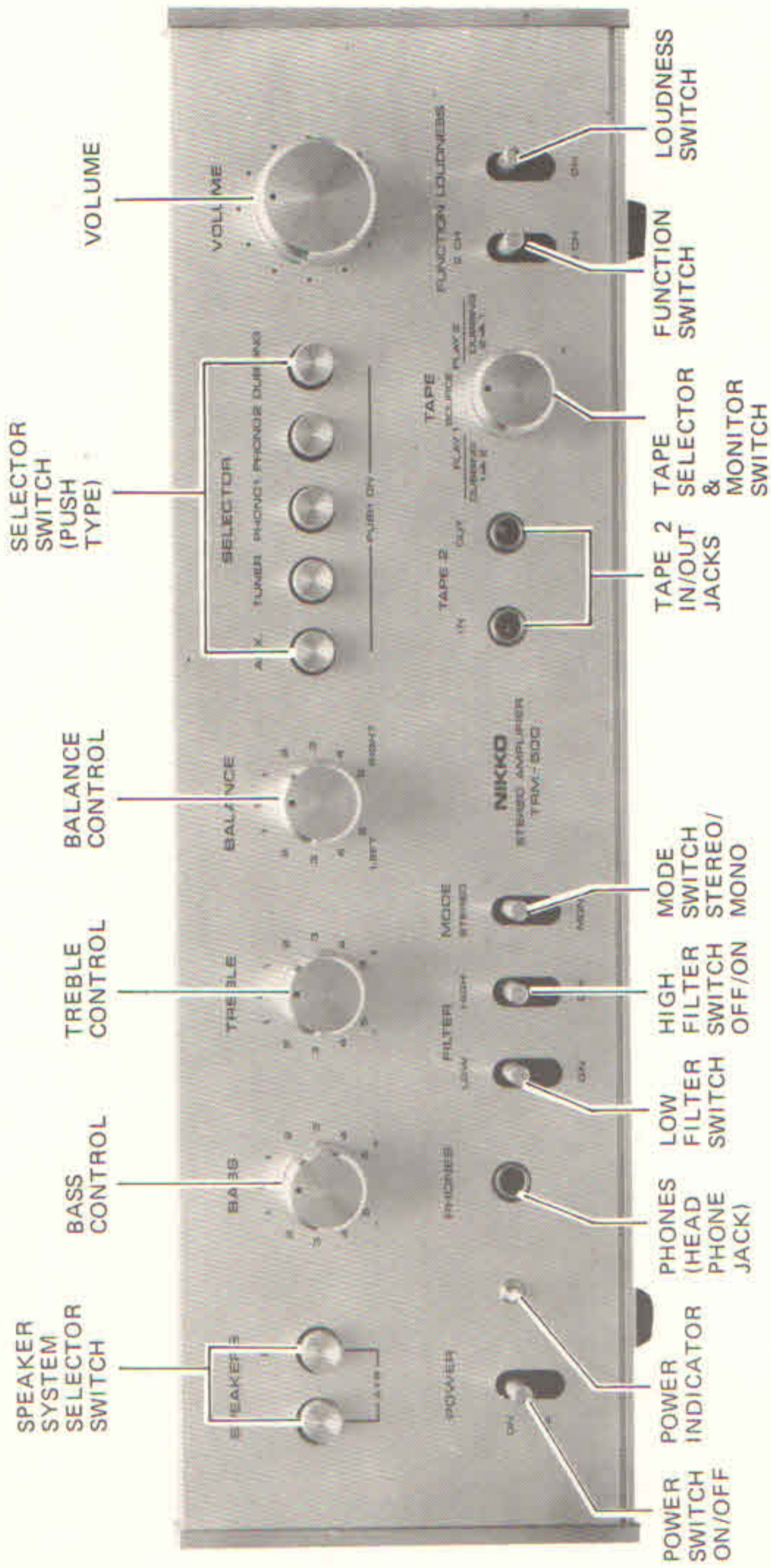


NIKKO 

*pre - amp / amplifier model trm **500** owner's manual*

SPECIFICATIONS



Music Power	IHF 8 ohms	70W
RMS Power Rating	Single ch. Driven 8 ohms	26/26W
	4 ohms	33/33W
	Both ch. Driven 8 ohms	22+22W
	4 ohms	24+24W
Power Response	-1 dB 0.8% T. H. D	20 Hz-20 KHz
Frequency Response	± 2 dB AUX Input	20 Hz-30 KHz
Distortion	Rated Output	0.8%
	1W Output	0.1%
Intermodulation Distortion	Rated Output	0.8%
	1W Output	0.2%
Input Sensitivity / Impedance (Rated Output at 1000 Hz) Main in	PHONO	1000mV/100KΩ
	TAPE MON.	2mV/47KΩ
	AUX. TUNER	150mV/50KΩ
	PHONO 1. 2.	150mV/50KΩ
	AUX. TUNER TAPE MON.	60dB
S/N		80dB

Tone Control	Bass	± 10dB
	Treble	± 10dB
Loudness		+ 10dB
		+ 5dB
Filter	Low Filter	-3dB
	High Filter	-3dB
Damping Factor		30
Power Line Voltage / Frequency		50/60 Hz
Power Consumption	Maximum	140W
Working Semiconductor Devices	Transistor	29
	Diode	9
	Width	15"
	Depth	11 7/8"
	Height	8 7/8"
Weight		7.2Kg/16Lbs.



Welcome to a new world of stereo listening pleasure . . . the world of Daily Happiness from Nikko.

With your purchase of this new Stereo Amplifier, you have secured for yourself and your family an extra measure of listening pleasure . . . as the beginnings of a new custom system . . . or to upgrade the quality of what you now have in your home.

The special features explained on the back page of this manual were designed and incorporated into your Nikko amplifier with the purest form of listening enjoyment in mind.

This manual has been prepared to help you get the maximum performance from your new Stereo Amplifier. Read through it thoroughly . . . and "tune yourself in" to a lifetime of Daily Happiness in Stereo!

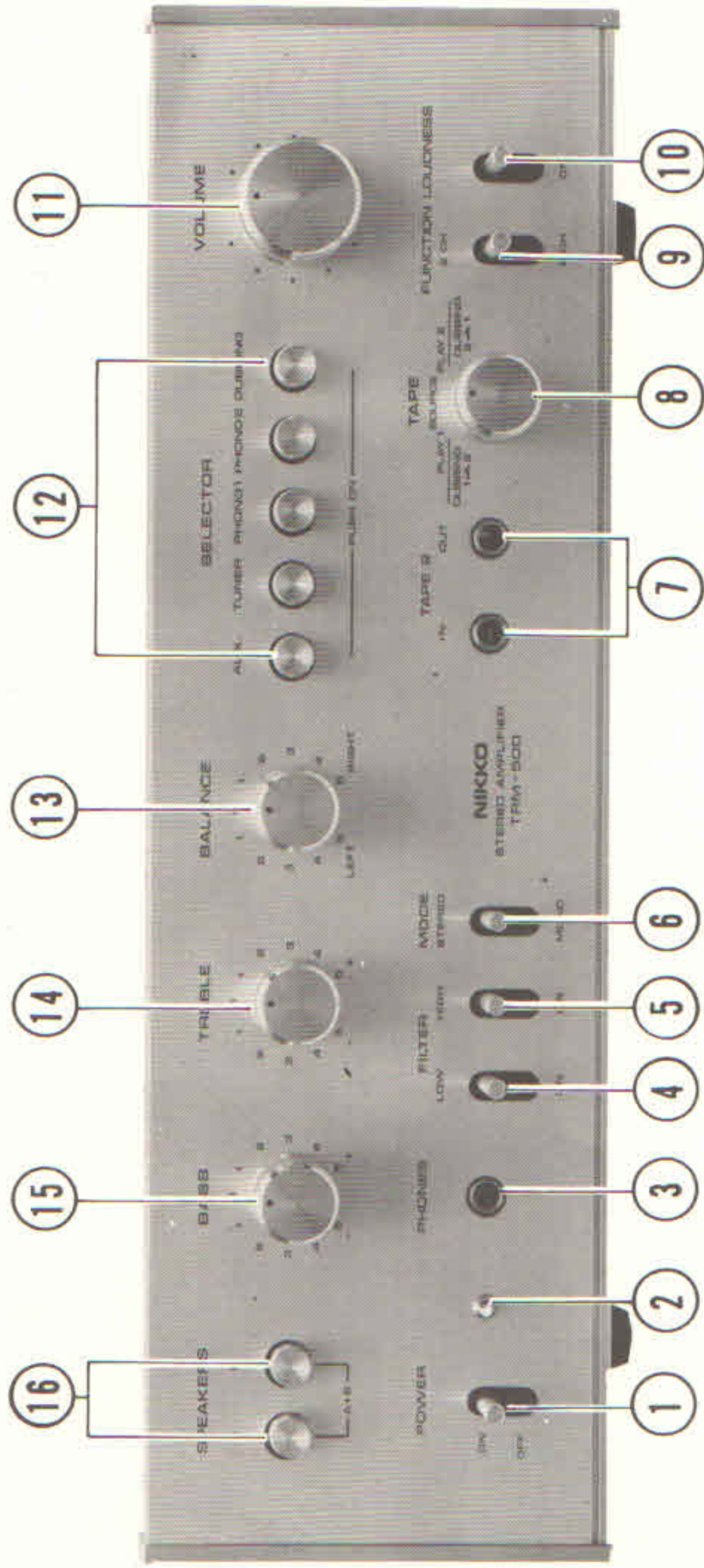
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EXPLANATION OF FRONT PANEL

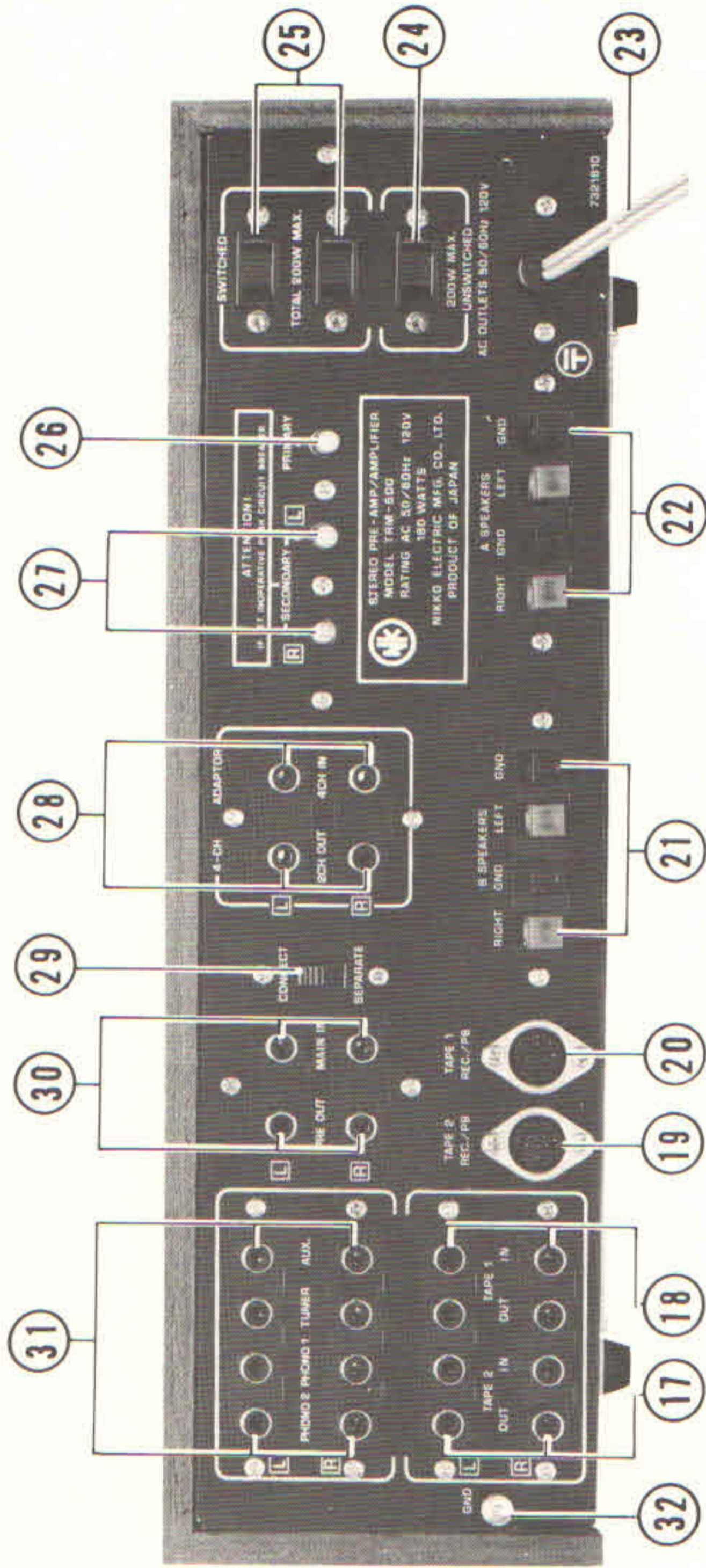


1. **POWER SWITCH ON/OFF**
The switch is "OFF" when lowered and "ON" when lifted.
2. **POWER INDICATOR**
It lights up, to visually indicate when power switch "ON"
3. **PHONES (HEAD PHONE JACK)**
Plug stereo headphone cord into this jack for private or monitoring listening pleasure.
4. **LOW FILTER SWITCH**
Switch "ON" to eliminate low frequency rumble noise from incoming signal.
5. **HIGH FILTER SWITCH OFF/ON**
Switch "ON" to eliminate high frequency scratch noise from incoming signal.
6. **MODE SWITCH STEREO/MONO**
A mode switch to allow you to select Monophonic or Stereophonic operation to fit your need.
7. **TAPE 2 IN/OUT JACKS**
Two tape recorders can be connected to the TRM-500. In addition to the R.C.A. pin terminals and DIN type connectors on the rear panel, IN/OUT jacks for TAPE 2 are provided on the front panel for convenience.
8. **TAPE SELECTOR & MONITOR SWITCH**
Used in use of program source other than tape or in listening to recording source (except for dubbing).

9. **FUNCTION SWITCH**
2CH indicates two-channel stereo operation,
4CH indicates four-channel operation with a four-channel decoder connected to the TRM-500
10. **LOUDNESS SWITCH**
Switch in "ON" position compensates frequency loss at low volume levels.
11. **VOLUME**
For low volume, turn left; for higher volume of sound, turn right.
12. **TAPE 1 / DUBBING 1-2**
Used when reproducing the Tape 1 connected to the terminals on the rear panel of the amplifier.
Used when recording the Tape 1 or when monitoring the recording condition of a 3-head tape recorder.
Used when playing the Tape 1 while recording the Tape 2 with the SELECTOR SWITCH (#12) push "DUBBING" button.
TAPE 2 / DUBBING 2-1
Used when reproducing the Tape 2 connected into the jacks on the front panel.
Used when recording the Tape 2 or when monitoring the recording condition of a 3-head tape recorder.
Used when playing the Tape 2 while recording the Tape 1 with the SELECTOR SWITCH (#12) push "DUBBING" button.
13. **FUNCTION SWITCH**
2CH indicates two-channel stereo operation,
4CH indicates four-channel operation with a four-channel decoder connected to the TRM-500
14. **LOUDNESS SWITCH**
Switch in "ON" position compensates frequency loss at low volume levels.
15. **VOLUME**
For low volume, turn left; for higher volume of sound, turn right.

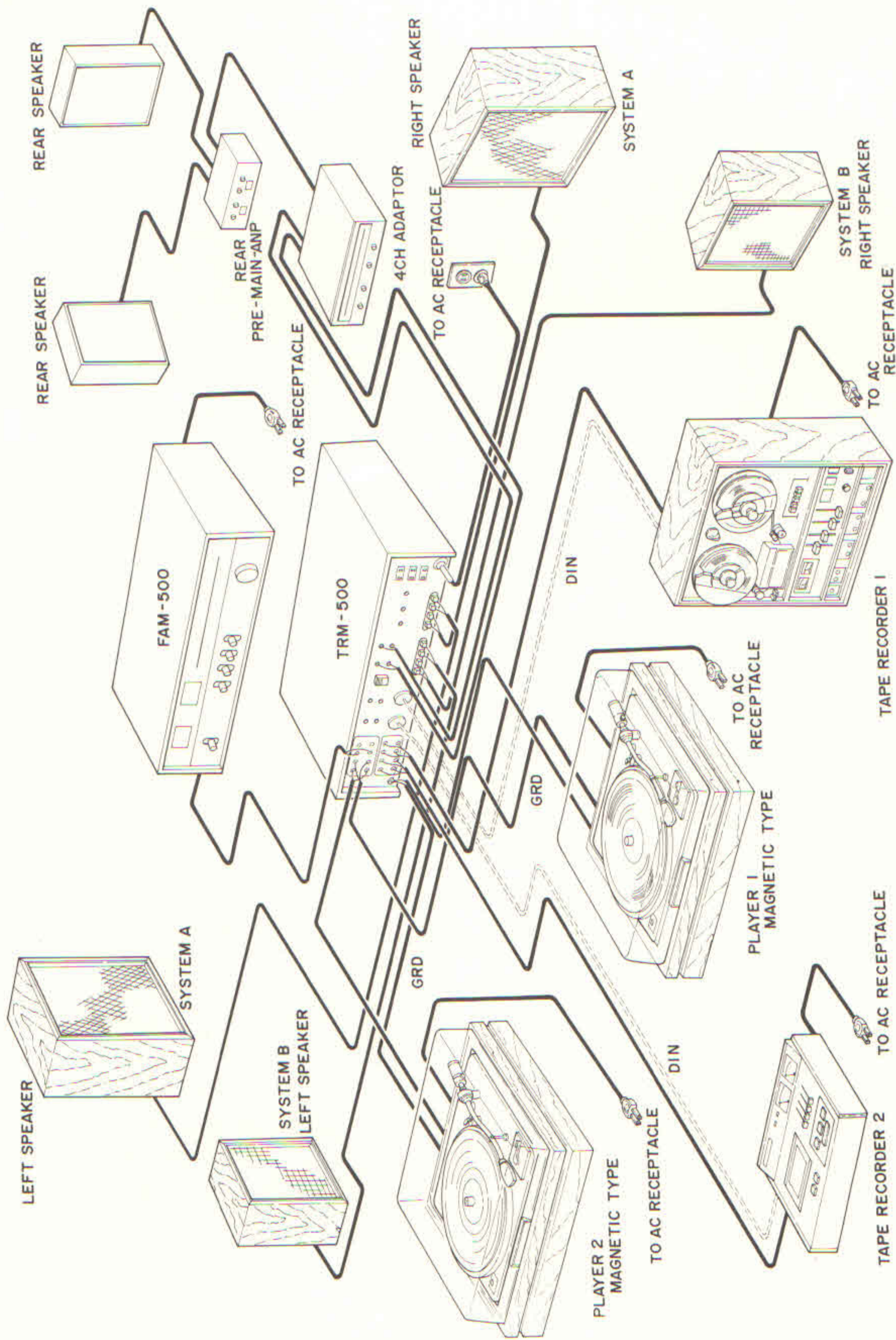
12. **SELECTOR SWITCH (PUSH TYPE)**
Position functions selector control switch to:
AUX: Push "AUX" button when using other auxiliary audio accessories such as crystal or ceramic type cartridge, tape recorder with preamplifier, tuner, television output, etc.
TUNER: Push "TUNER" button when playing stereo or monophonic broadcasts through a stereo tuner.
PHONO 1: Push "PHONO" button when playing manual or automatic record player equipped with magnetic type cartridge.
PHONO 2: Push "PHONO" button when playing manual or automatic record player equipped with magnetic type cartridge.
DUBBING: Used when dubbing by the Tape 1 and Tape 2.
13. **BALANCE CONTROL**
The switch click-stops at the top center position.
14. **TREBLE CONTROL**
The switch click-stops five steps each at both (+) and (-) sides
15. **BASS CONTROL**
The switch click-stops five steps each at both (+) and (-) sides.
16. **SPEAKER SYSTEM SELECTOR SWITCH**
A: Pressing to "A" only when operating A speaker system, and repressing it when you want it "OFF".
B: Pressing to "B" only when operating B speaker system, and repressing it when you want it "OFF".

EXPLANATION OF REAR PANEL



- 17. **TAPE 2 IN/OUT TERMINALS**
TAPE 2 IN: Connect the output plug of the tape deck into this jack for playback of the tape deck and TAPE SELECTOR & MONITOR SWITCH (#8) is in the "PLAY 2" position for monitoring the recording by the tape deck.
OUT: Connect the input plug of the tape deck into this jack.
- 18. **TAPE 1 IN/OUT TERMINALS**
TAPE 1 IN: Connect the output plug of the tape deck into this jack for playback of the tape deck and TAPE SELECTOR & MONITOR SWITCH (#8) is in the "PLAY 1" position for monitoring the recording by the tape deck.
OUT: Connect the input plug of the tape deck into this jack.
- 19. **TAPE 2 REC/PB (DIN TYPE CONNECTOR)**
TAPE 2: This connector is an extra input and output terminal for European type recorder.
- 20. **TAPE 1 REC/PB (DIN TYPE CONNECTOR)**
TAPE 1: This connector is an extra input and output terminal for European type recorder.
- 21. **B SPEAKER TERMINALS (SYSTEM-B)**
A: Connect right-side speaker cables to terminals "RIGHT" and "GND".
B: Connect left-side speaker cables to terminals "LEFT" and "GND".
C: "GND" markings are for correct phasing of both speakers.
- 22. **A SPEAKER TERMINALS (SYSTEM-A)**
A: Connect right-side speaker cables to terminals "RIGHT" and "GND".
B: Connect left-side speaker cables to terminals "LEFT" and "GND".
C: "GND" markings are for correct phasing of both speakers.
- 23. **POWER SUPPLY CORD**
Connect this cord into an electrical AC receptacle.
- 24. **AC OUTLET (Unswitched)**
Accessory power outlet. AC always available when amplifier is plugged into AC receptacle and is not controlled by the Main Power Switch (#1). Maximum capacity is 200 watts.
- 25. **AC OUTLET (Switched)**
This outlet is connected to, and turned "ON" and "OFF" by the Main Power Switch (#1). Maximum capacity is 200 watts. (TOTAL)
- 26. **CIRCUIT BREAKER (Primary)**
The primary circuit breaker protects amplifier from major damage due to overload or short circuit.
- 27. **CIRCUIT BREAKER (Secondary)**
Protect the secondary circuits from major damage due to overload or short from speaker terminals.
- 28. **4CH ADAPTOR TERMINALS**
2CH OUT: Connect the input of a four-channel adaptor to these terminals.
- 29. **PRE-MAIN CONNECT/SEPARATE SWITCH**
Switch on or off the connection between the output of the pre-amplifier and the input of the main amplifier.
- 30. **MAIN INPUT, PRE OUTPUT TERMINALS**
PRE OUT (R/L): Provides output of pre-amplifier signals at these terminals from the TRM-500.
MAIN IN (R/L): Main amplifier input terminals, for use when it becomes necessary to bypass the TRM-500.
This function is accomplished in conjunction with switch (#29) located in the rear of the TRM-500.
- 31. **INPUT TERMINALS**
PHONO 2: Plug cables of manual or automatic record player equipped with magnetic type cartridge into these jacks.
PHONO 1: Plug cables of manual or automatic record player equipped with magnetic type cartridge into these jacks.
TUNER: Plug in cables from Tuner Output for AM-FM-Multiplex.
AUX: Plug in audio cables from television output, microphone, etc.
Select the receptacle that gives the best performance.
- 32. **GROUND TERMINAL**
Earth ground connection.

CONNECTION DIAGRAM



HOW TO OPERATE

1. POWER SUPPLY CORD (#23) must be connected to an electrical receptacle after you make sure all other necessary connections have been made.
2. Make sure POWER SWITCH (#1) is in the "OFF" position.
3. Connect a pair of speakers to SYSTEM B or SYSTEM A TERMINAL (#21 or #22).
4. Connect other audio components to their respective terminals on the rear panel (#17 to #32). (The SWITCH #29 must be in the connect position).
5. Set LOW FILTER SWITCH (#4), HIGH FILTER SWITCH (#5) and LOUDNESS SWITCH (#10) to their respective "OFF" position.
6. Set MODE SWITCH (#6) to STEREO mode.
7. Turn TAPE SELECTOR & MONITOR SWITCH (#8) to SOURCE position.
8. Set FUNCTION SWITCH (#9) to a desired position. (2CH indicates two-channel stereo operation and 4CH indicates four-channel operation).
9. VOLUME CONTROL (#11) should be in the extreme left position. Also turn BALANCE CONTROL (#13), TREBLE CONTROL (#14) and BASS CONTROL (#15) to their respective center position.
10. Push any button of SELECTOR SWITCHES (#12) as desired.
11. Push SPEAKER A or SPEAKER B button of SPEAKER SYSTEM SELECTOR SWITCHES (#16) as desired.
12. After making sure of each setting instructed above, connect POWER SUPPLY CORD (#23) to an electrical receptacle.
13. Plug audio cables from magnetic type turntable output into PHONO 1 or PHONO 2 INPUT (#31), push the function switch (#12) in the on position.
14. Plug audio cables from TUNER output into TUNER INPUT (#31), press the FUNCTION SWITCH (#12) is in the on position.
15. Plug audio cables from Ceramic or Crystal type turntable, Television, etc., is into "AUX" input (#31), press the FUNCTION SWITCH (#12) is in the "ON" position.
16. Push POWER SWITCH (#1) on. Check to see that power indicator Light (#2) is on.
17. Turn VOLUME CONTROL (#11) to adjust speaker output levels.
18. Turn BALANCE CONTROL (#13) to balance speaker output levels.
19. Turn TREBLE CONTROL (#14) and BASS CONTROL (#15) to adjust low and high frequencies as desired.
20. Set LOW FILTER SWITCH (#4), HIGH FILTER SWITCH (#5) and LOUDNESS SWITCH (#10) as desired.
21. For Recorder Playback:
Plug audio cables from tape recorder into TAPE 1 (#18) or TAPE 2 (#17) terminals, the TAPE SELECTOR & MONITOR SWITCH (#8) should be in the PLAY 1 or PLAY 2 position, you will hear your tape recorder's playback.
22. For Recording program source:
Plug audio cables from tape recorder input into TAPE 1 (#18) or TAPE 2 OUT (#17), and select your desired program source with TAPE SELECTOR & MONITOR SWITCH (#8). If you own a three head tape recorder (sound on sound) and if you desire to monitor the recording, plug audio cable from tape recorder's into TAPE 1 (#18) or TAPE 2 OUT (#17), then turn TAPE SELECTOR & MONITOR SWITCH (#8) should be in the PLAY 1 or PLAY 2 position.
23. For Dubbing:
Two set of tape decks can be connected into TAPE 1 (#18) and TAPE 2 (#17) jacks for tape dubbing with DUBBING SWITCH (#12) should be in the "ON" position.
24. For other operations and connections, please refer to the section "DESCRIPTION" mentioned on the prior pages.
25. Make sure of CIRCUIT BREAKERS (#26 & #27) when the TRM-500 does not work even after all the necessary connections are properly made:
Push the reset buttons (red) of the CIRCUIT BREAKERS.

NIKKO ELECTRIC MANUFACTURING CO., LTD.

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NIKKO ELECTRIC CORPORATION OF AMERICA

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SCHEMATIC DIAGRAM TRM - 500

