

TEAC

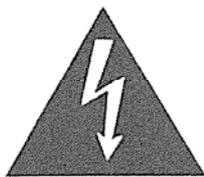
HI-FIDELITY COMPONENT SYSTEM

MODEL:A-45
T-45
W-45

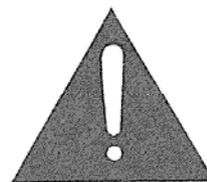
WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

OWNER'S MANUAL



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).

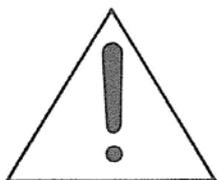
NO USER – SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The graphical symbols marked on the back cover of the set mean the following explanation.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Before operating this equipment please read this instruction manual carefully and keep for future reference.

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PLACEMENT

- * This unit should not be placed near heat sources such as radiators, heat registers, stoves, or other appliances that produce heat.
- * For best performance and safety, place this unit in a horizontal position.
- * Good air circulation is essential to prevent over-heating.
- * Choose a dust-free, well-ventilated location.

SAFETY

- * The power cord of the unit should be unplugged from the AC wall socket when not in use.
- * Do not plug or unplug the power cord with wet hands.
Always hold the plug itself not the cord.
- * Care should be taken that objects do not fall into liquids spilled into the enclosure through the openings.
- * The unit should only be serviced by qualified service personnel when:
 - a) The power cord has been damaged
 - b) Objects have fallen into or liquids spilled into the unit
 - c) The unit has been exposed to rain
 - d) The unit does not appear to operate normally or exhibits a marked change in performance.

EXTERNAL MAINTENANCE

Turn the power off before cleaning the cabinet. To clean, use a soft dry cloth. If the surfaces are extremely dirty, use a soft cloth, dipped into a soap and water solution or a weak detergent solution.

Wring the cloth well before wiping the unit. Wipe once again with a soft dry cloth. Never use alcohol, paint thinner, benzine, chemically-treated cloths or abrasive substances to clean the unit.

Such chemicals may damage the finish of your unit.

FEATURES

Integrated Amplifier (A-45)

- * Built-in 5 band graphic equalizer
- * Feather-touch, function-select circuitry
- * Hi-filter switch
- * 11 × 2 segment LED power meters
- * Low-distortion, high-power amplifier

Synthesizer Tuner (T-45)

- * Fluorescent display station indicator
- * Memory function maintained for more than three days without power
- * Quartz digital station tuning.
- * 16 channel memory in AM and FM modes
- * Auto-searching tuning system

Double Cassette Deck (W-45)

- * Automatic playback tape selection function (A DECK only)
- * High-speed dubbing function
- * Metal tape recording and playback
- * Continuous-play function
- * Soft-touch buttons
- * Automatic stop (playback only)
 - Dolby noise reduction manufactured under licence from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

VOLTAGE VERIFICATION

- Before operating this unit, be sure to check that the voltage setting of the unit exactly matches the local power voltage.
- Refer to the printed on the back of the unit for the proper voltage requirement.
- If the unit has a voltage selector switch, adjust the switch to the proper voltage.
- * The AC power for the dual cassette Deck(W-45) is supplied from the amplifier. Connect the AC power input cord of the dual cassette Deck(W-45) to the Power supply socket marked "POWER OUT DECK" on the rear of the amplifier.

CONNECTIONS

All connections should be done in accordance with the connection diagram and the following instructions.

Make sure that all components are switched off until all connections have been made.

Power Amplifier Jacks and Terminals

Refer to pictorial diagrams on page 5.

CAUTION:

- Do not plug the power cord of the amplifier into an AC wall outlet until all connections have been made.
- Be sure to make the correct connections, paying attention to the L (left channel), R (right channel), (+) and (-) symbols plug the cables in and connect the lead wires securely. Loose connections will result in unsatisfactory sound reproduction or cause noise problems. Refer to page 4.

■ TUNER T-45

Use the standard RCA cables and make the proper connection to the amplifier tuner input.

■ Turntable

Make the proper connections to the phono input jacks. Connect the separate ground lead to the amplifier ground terminal-GND.

■ Aux and CD/VDP input jacks.

Connect the signal output cables from the compact disc player and/or second tape deck to the jacks marked CD/VDP and Aux.

Connect the AC cord to the AC outlet.

■ TV/VTR

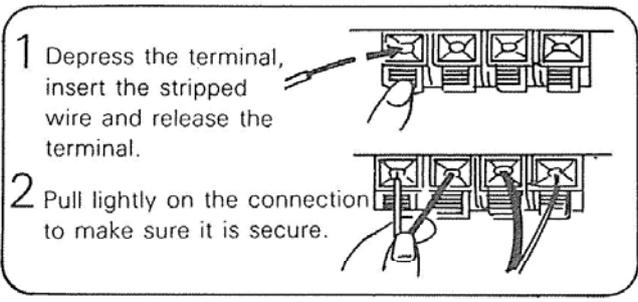
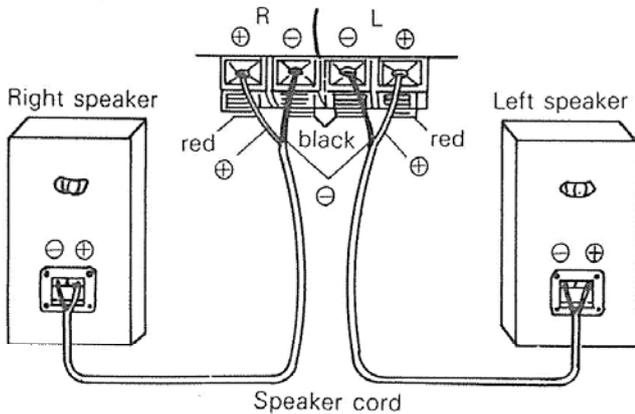
Connect the TV or VTR to the audio system. Make the connections to the amplifier TV/VTR input and output.

■ Tape Recorder W-45

Connect the deck PLAY/LINE (OUT) Jacks to the amplifier TAPE/PLAY(IN) plugs. Connect the deck REC/LINE (IN) jacks to the amplifier TAPE/REC (OUT) plugs.

- Loudspeakers

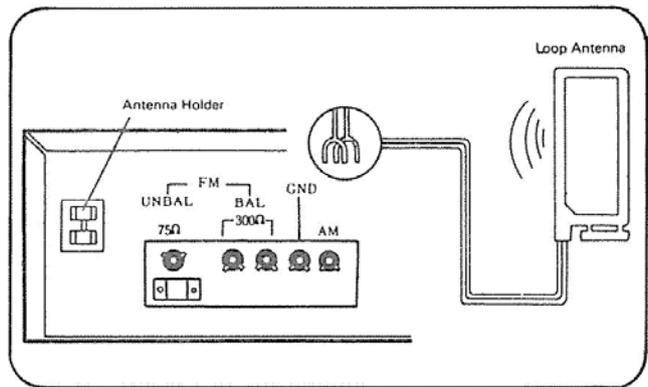
Use care not to "short circuit" speaker cables. Phase properly. That is, connect the positive or "plus" terminal on each speaker to the corresponding "plus" terminal on the amplifier. This insures that the speakers are working together and not against each other, providing optimum imaging and best bass response.



Tuner Antenna Connections

AM INDOOR LOOP ANTENNA

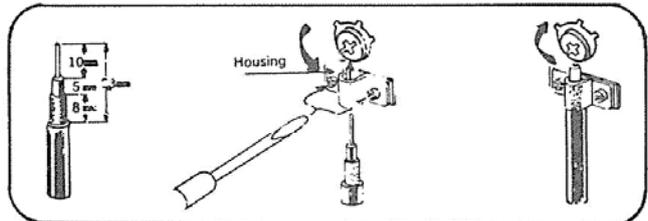
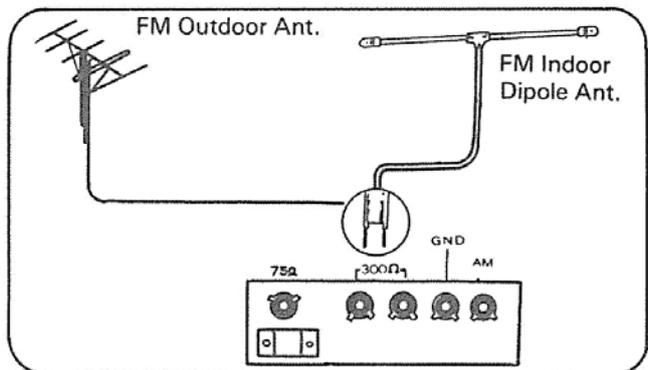
Connect the AM loop antenna to the AM and GND antenna terminals. Attach the loop antenna to the antenna holder mounted tuner rear chassis or any other convenient place and position for best reception. If the reception is weak on some stations adjust the position of the loop antenna. If the reception cannot be improved, the installation of an AM external antenna is recommended.



CONNECTING AN FM ANTENNA

Connect suitable FM outdoor or indoor dipole antenna to the FM antenna input terminals. Position dipole antenna for best reception.

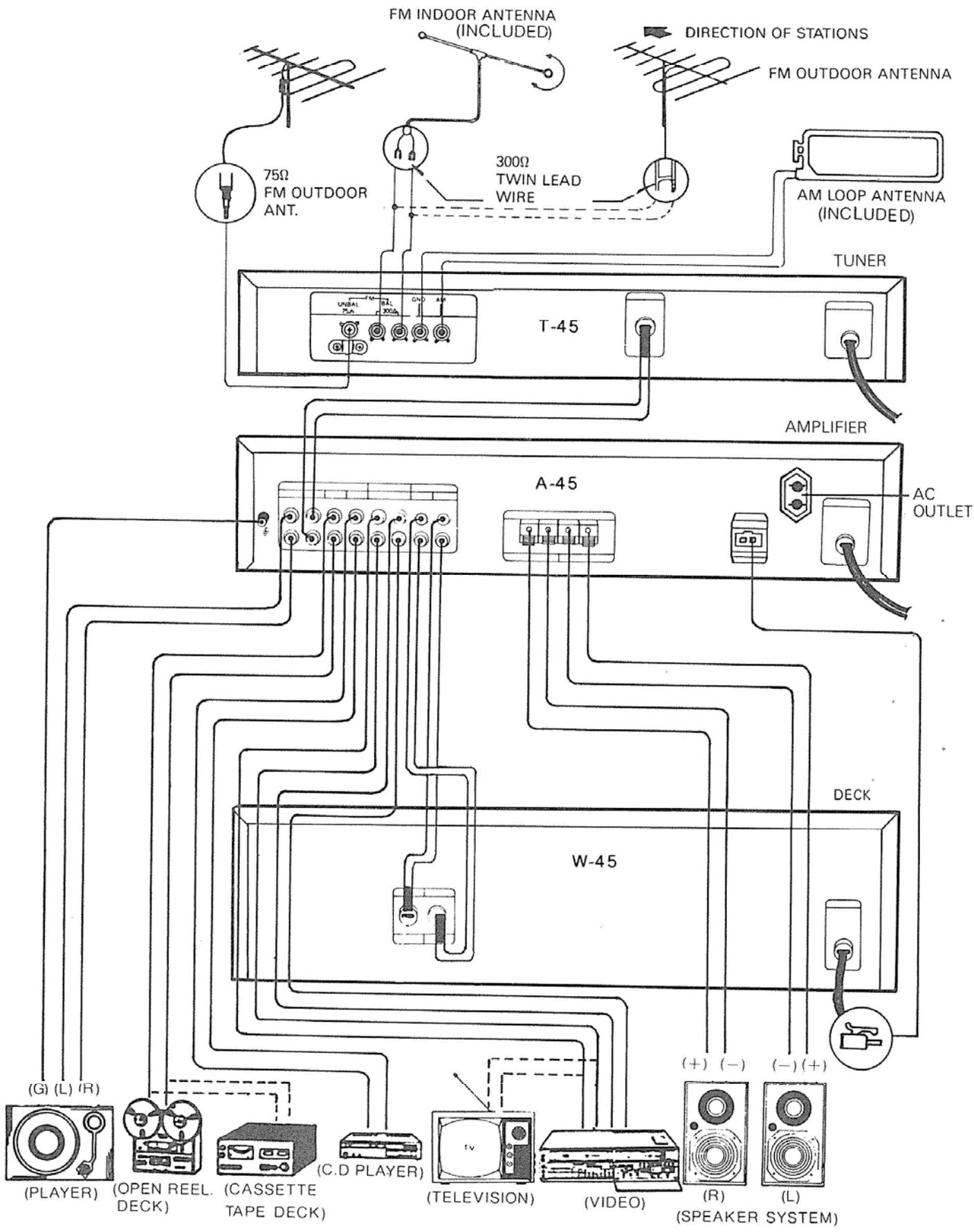
- Dipole antenna
Connect the dipole antenna supplied to the ANTENNA terminals marked FM 300Ω.
- Outdoor antenna with 300Ω feeder.
Connect the feeder to the ANTENNA terminals marked FM 300Ω.
- Using coaxial cable
For outdoor antenna system using coaxial cable refer to the drawing below.



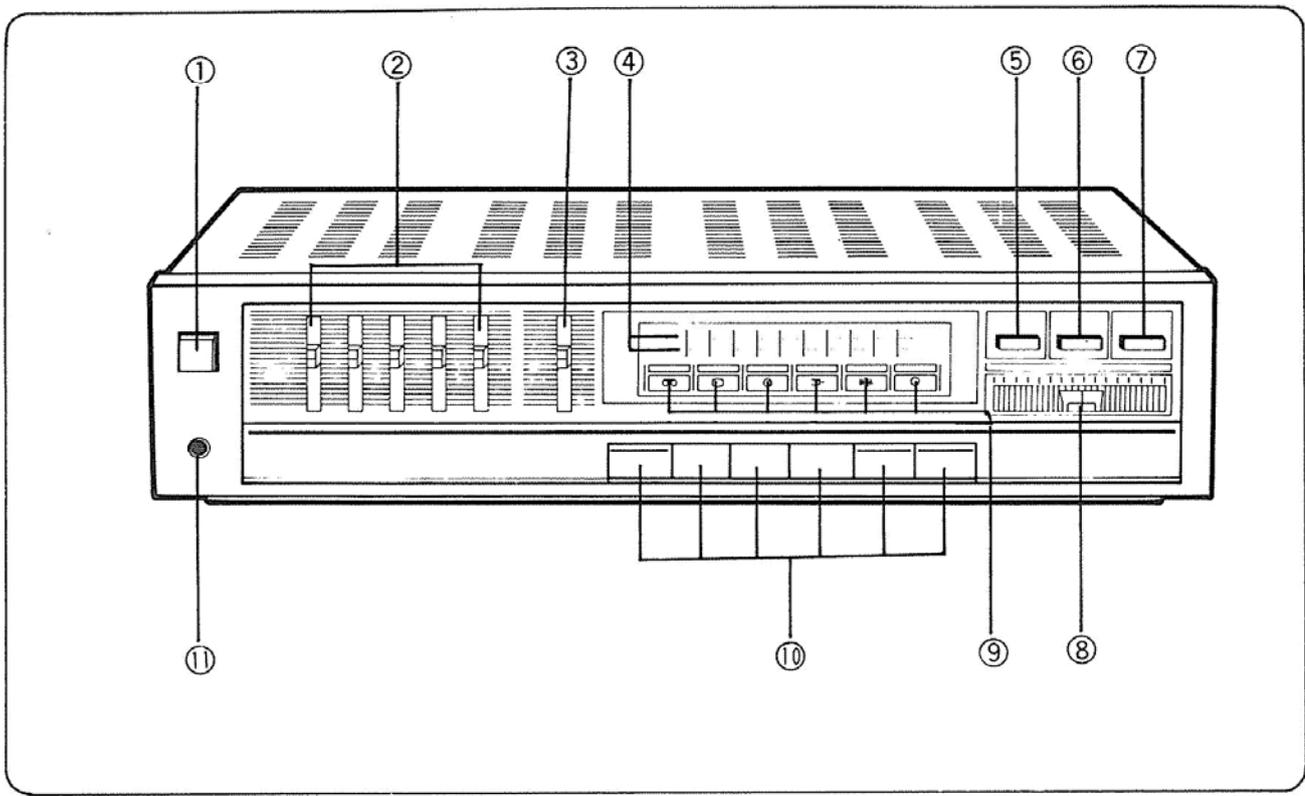
Note:

In weak signal areas, the use of an outdoor FM antenna is necessary for good FM reception contact your dealer for advice.

Connection Diagram



INTEGRATED AMPLIFIER (A-45)



1. Power switch
When Touched to turn power on, the selected function indicator will light.
2. Graphic equalizer control switches.
Adjust the tone with the Graphic Equalizer Control switches Separated into five segments from 100Hz to 10kHz.
3. Balance control
Adjusts left or right balance should there be any variation at the program source. Normally this control is set at the center position.
4. Power LEVEL indicators
Indicates the approximate music program power output levels to the speakers. Also for continuous system monitoring to provide an instantaneous indication of the left and right channel power distribution and channel balance.
5. Mode button
To listen to mono recordings press until stereo mode indicator light is off. To resume stereo listening, press again and the stereo indicator will light.

Note: When the amplifier is in mono all other functions and selectors are like wise in mono, therefore care should be taken when making recordings to ensure that the stereo LED is lit.

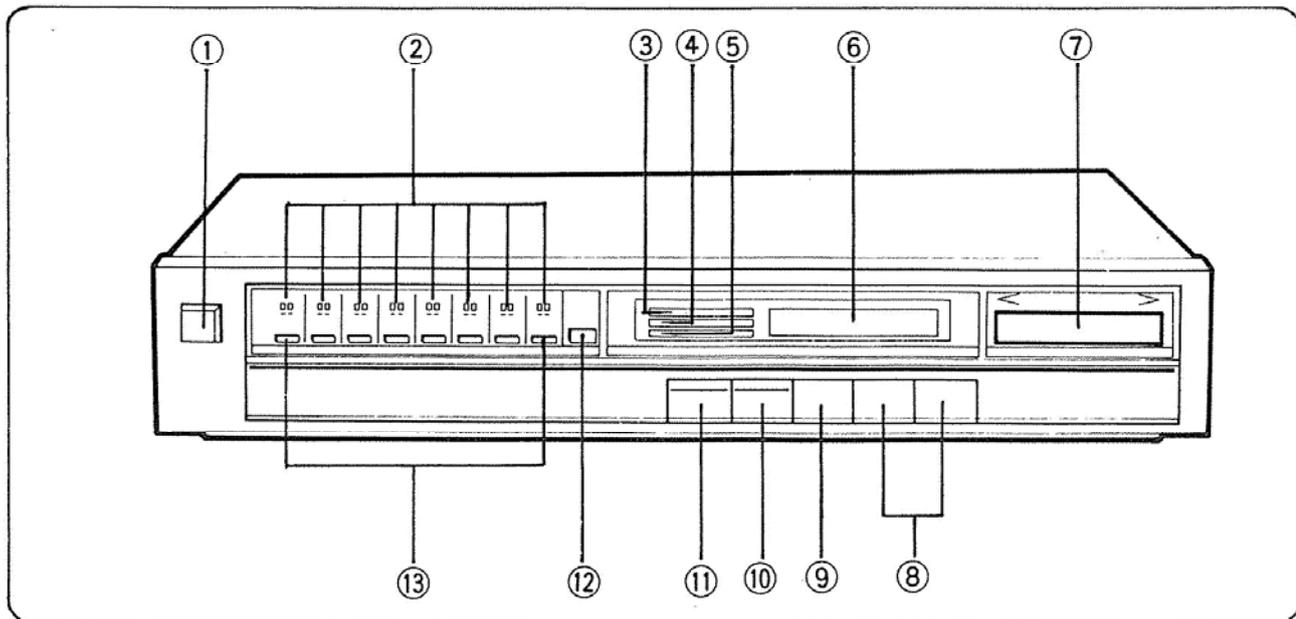
6. High filter
Push this button to remove high frequency noise encountered in some program source. Since all high frequency filters have some effect on the amplifier frequency response, they should not be used unless disturbing noise is present.
7. Loudness control
Compensates for deficiencies in human hearing ability at low volume listening levels based on the Fletcher-Munson curves. (Audio levels of high and low frequencies are boosted).
8. Volume control
Adjusts volume is for the left and right channels simultaneously.
9. Function indicator
Lights for selected input source and operating mode.
10. Input selector
Selects the program source, provided the Tape monitor switch is set to the source position.
11. Headphone jack
Plug for stereo headphones for private listening.

Listening Through Headphones

Plug in a stereo headphone set (not included) into the PHONES jack for private listening. When the plug is inserted into the jack the sound will be heard through the headphones. Adjust the Volume, Balance and Equalizer controls.

Note: Be sure not to insert the headphones plug into the jack when the sound is loud. This precaution is necessary to protect the headphones and your ears against noise shock.

SYNTHESIZER TUNER (T-45)



1. Power switch
When the power is on, the fluorescent frequency display (6) will light.
2. Channel LED.
3. FM Stereo indicator
When the tuner is switched to stereo mode, indicator lights.
4. AUTO indicator
When the AUTO tuning is selected the indicator lights.
5. PRESET REVERSE indicator
When the PRESET REVERSE button is touched, this indicator lights.
6. Tuning display
Indicates the frequency of selected AM or FM stations.
7. Up/Down tuning button
One touch on the left or right side of this button will decrease or increase the AM or FM frequency by one channel.
8. Band selector button
Push to select desired band.
9. Memory scan button
After this button is pressed, when press the station memory button, appears on the Display that memorized frequency.
10. PRESET REVERSE button
When memorizing channel No. 9-16, press this button after selecting the desired station.
11. AUTO/MANUAL SEARCH BUTTON
When this button is pressed, touching the tuning button will automatically seek the set frequency desired.
12. Memory button
Push to activate memory for station presetting. Memory indicator lights in the fluorescent display.
13. Station memory buttons
Push to select desired memorized AM or FM stations.

TUNER OPERATION

MANUAL Tuning Operation

Press the band selector button.

Press the AUTO/MANUAL button to deactivate the AUTOMATIC tuning feature.

Press momentarily one side of the tuning button and the frequency in display will change in 9 KHz at AM band and 0.05 MHz at FM band.

1) Switch on the power.

2) FM BAND

Press the FM selector button.

Tune a station by pressing the UP or DOWN button.

The FM STEREO indicator lights when a stereo broadcast station is received.

3) AM BAND

Press the AM selector button.

Tune a station by pressing the UP or DOWN button.

The TUNED indicator lights when a station is tuned, AM band.

4) UP and DOWN button (Tuning button)

When the UP or DOWN button is pressed, and held in that position, the frequency in the display increases or decreases numerically until the button is released.

When a desired frequency is approaching, release the button and press it momentarily until the frequency of the station is tuned, the frequency will change in 0.05 MHz at FM band, and in 9 KHz at AM band.

AUTO Tuning Operation

Press the band selector button.

Press the AUTO/MANUAL button to activate the AUTO feature, AUTO indicator lights.

Press gently the left or right side of the TUNING button.

The frequency moves continuously until it stops in the next station available in your area.

PRESETTING (MEMORIZING) STATIONS

Up to 16 stations can be memorized in the AM and FM bands. To memorize stations 9 to 16, push the PRESET REVERSE button and PRESET REVERSE LED lights.

1) Set the station to be preset. Refer to the section on tuning operation.

2) Once the station has been set press the memory button and press one of the preset buttons while the memory indicator is on.

Once the memory indicator light goes out, stations can no longer be preset. Make sure that you press the preset STATION button while the memory indicator is on.

If it has gone out, repeat the presetting operation.

MEMORY SCAN FUNCTION

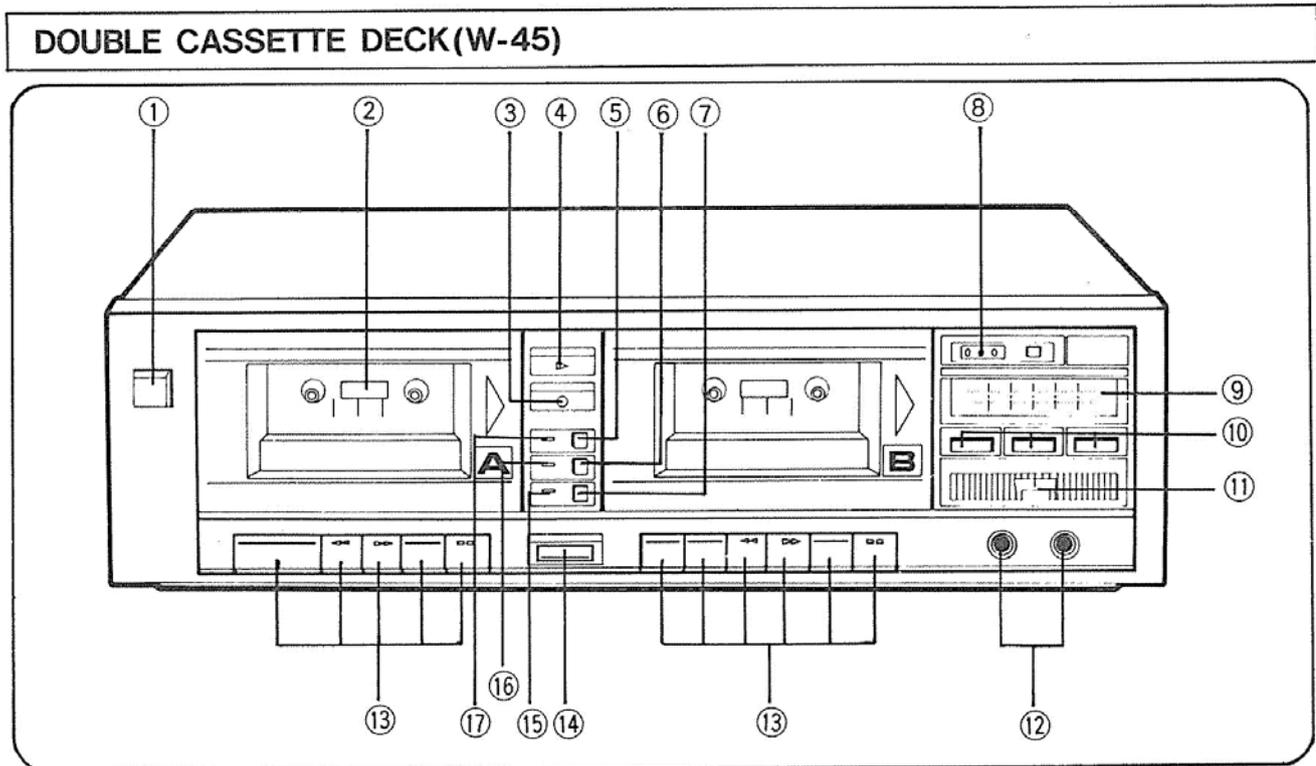
After MEMORY SCAN button is pressed, when press the "STATION MEMORY" button, appears on the Display that memorized frequency corresponding the channel.

Leave a this button is pressed, appears by turns on the Display that memorized frequency with every about 5 seconds from channel No. 1 to channel No. 16.

Note: Presetting is possible in any order and with any of the buttons for both FM and AM stations.

When a preset STATION button is used to preset a new, different broadcast station, the previously preset station is erased.

When a preset STATION button is pressed after the station frequency has been entered into the memory, the frequency of the preset station is indicated on the digital frequency display panel.



1. Power Switch.
Push to turn power on. Level meter LED (9) lights
2. Cassette compartment A-Deck
A-Deck is used for playback only and features automatic tape equalization.
3. Recording indicator
Lights when recording mode is selected.
4. Dubbing function indicator
Lights when dubbing function is selected.
5. Dolby NR Switch
push to record tapes with Dolby NR system or to playback Dolby encoded tapes.
6. High Speed Dubbing Switch
Activates deck for high speed dubbing from A-Deck to B-Deck.
7. Continuous playback button
To playback two pre-recorded cassette tapes from B DECK to A DECK.
8. Tape counter
9. Level meters
These indicate the input level during recording and the output level during playback of the deck currently operating.

10. Tape Select Switch
This switch adjusts bias and equalization characteristics of the B-Deck to the most commonly used cassette tapes. Please refer to the marking on the compact cassette you are using.
11. Recording Level Control
Permits adjustment for correct recording level.
12. Microphone input jacks
13. Tape Function Touch Controls
 - a) Recording button ((REC)); Touch this button for recording. Recording indicator (3) will light.
 - b) Play button ((PLAY)); Push to playback tape.
 - c) Rewind button ((REW)); Push for fast rewind of tape.
 - d) Fast Forward button ((FF)); Push for fast forward motion of tape.
 - e) Stop/Eject button ((ST/EJ)); Push and all tape motion functions will be stopped. Push again and the cassette will be ejected.
 - f) Pause button ((PAUSE)); touching this switch during record or playback mode stops the tape motion momentarily, but will leave the recorder in the selected mode. For example, recording can be momentarily interrupted and continued with this switch.
14. Synchro button
When dubbing (Recording) from A-Deck to B-Deck this button permits synchronous start of the two decks.
15. Continuous indicator
Lights up when the continuous playback function is selected.
16. High Speed indicator
Lights up when high speed dubbing function is selected.
17. Dolby NR indicator
Lights up when pushing the Dolby NR switch.

DOUBLE CASSETTE DECK OPERATION

Playing Tapes

• Playback

- 1) Turn on system and push Tape Monitor switch on amplifier.
- 2) Set the Dolby NR switch (5) as required (normally ON).
- 3) Set the Tape Selector switch (10) as required (B-Deck only).
- 4) Push the Play button
- 5) To stop playback; push the Stop switch. If you wish to stop only temporarily, touch the Pause button. To resume playback push the Pause button again.
- 6) When one side of the cassette has been played, turn the cassette over if you want to play the opposite side.
- 7) In continuous play mode A-Deck will automatically start when cassette in B-Deck has finished.

* The play button cannot be depressed when no cassette tape in the cassette compartment.

• Recorded with Dolby NR

It is essential that the Dolby NR switch (5) be set to the ON position for all tapes recorded with the Dolby NR switch on.

• Continuous Playback

1. After press and turn on the power button, you press the CONTINUOUS Button.
2. You press the tape STOP/EJECT and insert the tape of 2 EA each, shut the cassette door, please. (Insert in the B deck that you want to listen the tape firstly).
3. In the case of the Tape to do use became record as DOLBY NR, you put on the "ON" position (Button is state of press) to DOLBY NR. In the case of the Tape didn't become record as DOLBY NR, you put on the "OFF" position (Button is not state of press). When you take a playback to the recording Tape as DOLBY NR method, necessarily you put on the "ON" position. Otherwise become decrease to sound of high frequency.
4. By the sort of Tape (NORMAL/CrO₂/METAL), you press the correspondent Tape Selector.
5. You press the PLAYBACK of A deck and B deck together, please.
6. If tape playback of B deck is the end, automatically, the playback of A deck begin.
 - 1) On the way listening the tape, when you want to stop, you press the tape STOP/EJECT button all, please.
If the rotate of A deck and B deck all end, by auto stop method it stops.
 - 2) On the way to playback the TAPE of A deck, when you want to do playback the tape of B deck, if the playback of your wanting music of A deck, and you press the STOP/EJECT of A deck, the playback of tape of B deck begin.
 - 3) Continuous playback button put to be press, on the way B deck act playback, speed winding, rewinding etc. the function select button of A deck press also, A deck don't operate, when you let another operation about A deck and B deck, necessarily, you give to off the continuous playback button.

Recording a Tape

- Recording (B-Deck only)
 - 1) Set the Dolby NR switch (5) as required (normally ON).
 - 2) Set the Tape Select switch (10) as required.
 - 3) Push the Pause and Record buttons. The record indicator will light.
 - 4) Adjust the Recording level control (11) for proper recording level.
 - 5) To start the recording push the Pause button again.
 - 6) To stop the recording, push the Stop button. When the tape is fully recorded, the autostop mechanism will release the REC and PLAY buttons.
- Recording Level Adjustment

If the recording level is too low, tape hiss will be a problem, but adjusting the level too high will result in distortion.

It is generally advisable for successful recording to set the maximum meter level to +3dB for a metal tape and 0dB for CrO₂ or normal tape.

Set the REC Level control to zero. Then, adjust the control gradually higher while monitoring the meter deflection until the maximum recording level can be obtained.
- Pause convenience in Recording mode

Starting each recording from the Pause mode permits recording at the correct speed from the very beginning. The pause function is also convenient in cutting out unwanted parts of any program source such as commercials.

Erasing

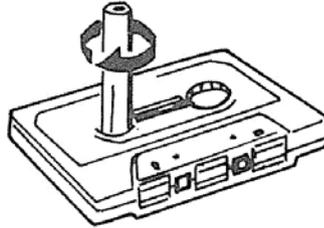
The erasure of previously recorded program material is automatically done during normal recording. If it is desired to simply erase a tape, proceed as follows.

- 1) Set the recording level control fully to zero.
 - 2) Push the recording button to start the erasure. When one side of the cassette has been erased, turn the cassette over and repeat the procedure.
- Dubbing Function
 - 1) Insert the tape to be duplicated into A-Deck and the blank tape into B-Deck.
 - 2) Set the Tape Select switch to match the type of tape to be recorded on.
 - 3) Push the Synchro button (14) and the REC button on B-Deck. Dubbing will start as soon as the Play button on A-Deck is pushed.
 - 4) High speed dubbing is done by pushing the High speed switch (6). Set this switch before starting dubbing process.
 - 5) Record level adjustment and Dolby NR switch are disabled during the dubbing process.

NOTES ON CASSETTES

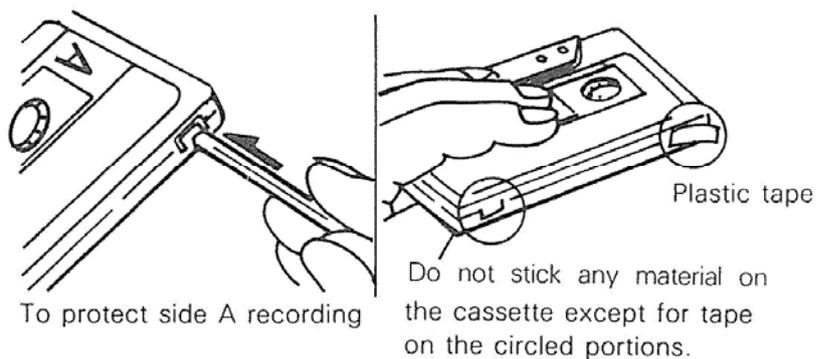
Cassette Insertion

Before inserting a cassette, take up any slack in the tape to prevent it from becoming tangled around the capstan.

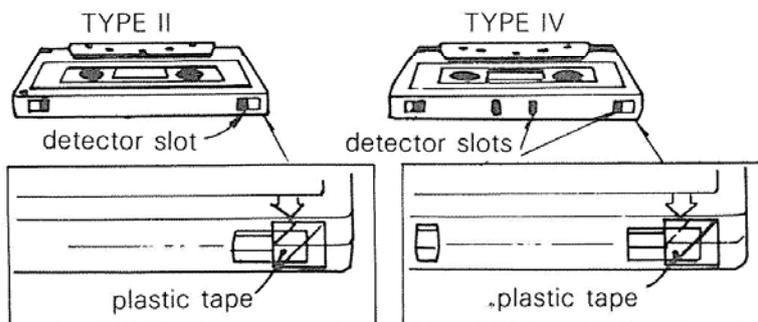


To Protect Cassettes from Accidental Erasure

Remove the tab as illustrated so that the record mode does not function when the record button is pressed. To record on a cassette after tabs have been removed, simply cover the slot with plastic tape.



- Be careful not to cover the detector slots of the TYPE II (CrO₂ tape) and TYPE IV (metal tape) cassettes.



Cassette Care

- Do not stick thick paper or tape onto the cassette, as this may affect proper cassette alignment and prevent proper tape contact with the head.
- Keep cassettes away from magnetic equipment such as speakers, amplifiers, etc., as erasure or distortion on your recorded tape could occur.
- Do not expose a cassette to direct sunlight, extremely cold temperatures or moisture.

SPECIFICATIONS

Integrated Amplifier:A-45

Output Power	: 40 W/Ch
Frequency Response	: 10-30,000 Hz
S/N Ratio	: 90 dB (IHF-A)
Graphic Equalizer	
100 Hz/350 Hz/1 kHz/3.5 kHz/10 kHz	: ± 10 dB
Line Voltage	: Refer to the back panel of the unit
Power Consumption	: 185 W
Dimensions (W x H x D)	: 430 x 90 x 250 mm.
Weight	: 5.2 kg.

Synthesizer Tuner:T-45

FM Section

Tuning Range	: 87.9~107.9 Mhz
Usable Sensitivity	
Mono	: 2.0 μ V
Stereo	: 5.0 μ V
S/N Ratio	
Mono	: 76 dB
Stereo	: 70 dB
Image Rejection	: 70 dB
Distortion	
Mono	: 0.15 %
Stereo	: 0.2 %
Auto Search Level	: 20 dB

AM Section

Tuning Range	: 522 ~ 1611 kHz
Usable Sensitivity	: 300 μ V/m
Image Rejection	: 35 dB
I.F. Rejection	: 40 dB
S/N Ratio	: 50 dB

Line Voltage	: Refer to the back panel of the unit.
Power Consumption	: 8.3 W
Dimension (W × H × D)	: 430 × 70 × 250 mm.
Weight	: 3.3 kg.

Double Cassette Deck:W-45

Tape Speed	: 4.75 cm/sec.
Wow & Flutter	: 0.15 %
F.F. Time	: 170 sec. (C-60)
Rewind Time	: 170 sec. (C-60)
Frequency Response	: 40 - 15,000 Hz (CrO ₂)
Distortion	
Play Back	: 1 %
Recording Play	: 1.5 %
Channel Separation	: 35 dB
Erase Ratio	: 65 dB
Cross Talk	: 60 dB
Input Sensitivity	: 100 mV
Output Level	: 550 mV
Dubbing Level	: 0 ± 1 dB
Line Voltage	: AC 19V
Power Consumption	: 15 W
Dimension (W × H × D)	: 430 × 116 × 250 mm.
Weight	: 3.3 kg.

Because we continually strive to improve our products, we reserve the right to alter specifications without notice.

