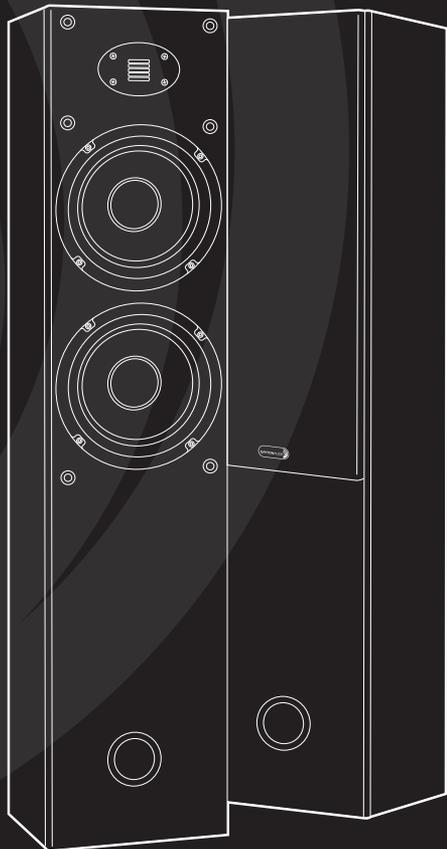




# DUAL 6-1/2" 2-WAY TOWER SPEAKER PAIR WITH AMT TWEETER

Model: T652-AIR User Manual



*Congratulations on your purchase of the **Dayton Audio® T652-AIR** speakers. These affordable tower speakers feature dual 6-1/2" woofers and groundbreaking Air Motion Transformer (AMT) tweeter technology in a custom-tuned bass reflex enclosure for huge dynamic impact and bass performance, along with clear, natural high frequency sound from a compact, floorstanding design. Please read on to discover how to get the most from your new speakers.*

### **1) Parts Inventory**

The T652-AIR speaker package includes the following items:

- 1 pair of Dayton Audio T652-AIR speakers
- 1 pair of 2-conductor red/black speaker cables

### **2) Installation Tools**

No tools are required for installation of the T652-AIR speakers. The T652-AIR speakers should be placed on the floor.

### **3) Speaker Placement**

Because of their well-behaved off-axis response and excellent dispersion, your new Dayton Audio speakers are less critical to position than most loudspeakers. Often, simply placing them where they best fit into the decorating scheme is all that is necessary for exceptional performance.

**⚠ CAUTION:** Wall-mounting of the T652-AIR speakers is not recommended. Use extreme caution whenever suspending a hanging load overhead, or serious injury may result.

If you are inclined to go through a more rigorous positioning exercise, the following paragraphs will help you achieve all the performance that your system is capable of.

Carefully select a few recordings. Choose recordings made with simple arrangements and strong vocals by a single performer. Physically small sound sources localize much more precisely. Placement of horns, strings, vocals, and drums will snap into focus when the loudspeakers are optimally positioned.

Start with the speakers directly in front of your primary listening position. Avoid hard vertical edges within 3 or 4 feet of either side of the cabinet. Position the cabinets about 1-2 feet out from the wall. Listen to one of the selected recordings paying close attention to the positions of the instruments and vocalist. Move the speakers 6-12 inches at a time, returning to the listening position to evaluate the results. Once placement is optimized, the vocalist will be firmly positioned in front of the instruments and the instruments will seem to be between or behind the loudspeakers. If possible, position your speakers so that when you are seated in the primary listening position your ears are 10-12 feet from the tweeter. Viewed from your seat, the angle between the speakers should be 30 to 60 degrees.

Pay special attention to the bass. The relation between bass response and room position is critical. Adjust the position of the speakers closer to or further away from nearby walls so that the bass levels are in proportion with the rest of the musical spectrum. The T652-AIR speakers may be placed directly against walls, but if there is too much bass, move the speaker away from the rear wall.

Loudspeaker positioning can be time-consuming, but the rewards justify the effort.

#### **4) Speaker Connection**

Use the supplied speaker wire or other good quality wire for the connection between your Dayton Audio loudspeakers and the amplifier. For longer runs, heavier wire should be used. For proper performance the speakers must be “phased” correctly. To insure proper phasing, connect the red speaker terminals to the red amplifier terminals and the black speaker terminals to the black amplifier terminals. All two-conductor wire is marked in some way to help you do this. One side will be marked with a colored stripe, a raised rib, or a different colored conductor. Use the marked side for the “red” connections, if a color code is not provided.

#### **5) Caring For Your Speakers**

Clean your speakers by wiping with a damp, lint-free cloth. The finish of your speakers can be maintained and enhanced by periodic use of a surface protection such as “ArmorAll”. The grilles may be vacuumed (with brush attachment) or gently tapped or brushed to remove dust and debris. It is recommended to leave the removable grills in place during use.

**POWER RATING NOTE:** Almost any speaker can be used successfully with almost any amplifier. Conversely, almost any speaker can be damaged by almost any amplifier-despite either unit’s power rating. The published power rating is accurate only if the volume level is never set above the point of audible distortion. Distortion is an indication that the amplifier or loudspeaker is operating beyond its design limits, and damage may occur – often within seconds. If you hear distortion, immediately reduce the volume. The T652-AIR is designed to be used with stereo equipment rated from 5 to 150 watts and from 4 to 8 ohms impedance.

Dayton Audio T652-AIR loudspeakers are designed to reproduce music and speech in a home environment at moderate volume levels. When used within their limits Dayton Audio T652-AIR loudspeakers will provide many years of trouble free performance.

## SPECIFICATIONS:

<b>Model Number:</b>	T652-AIR
<b>Description:</b>	2-Way Tower Speaker Pair (Floorstanding)
<b>Woofers:</b>	Dual 6-1/2" polypropylene cone with 4-layer coil
<b>Tweeter:</b>	Mini AMT type with pleated Kapton diaphragm
<b>Enclosure Type:</b>	Bass reflex
<b>Finish:</b>	Black ebony pica vinyl on particle board
<b>Power Handling:</b>	90W RMS/150W max
<b>Impedance:</b>	6 ohms
<b>Response:</b>	45 Hz to 20,000 Hz
<b>Sensitivity:</b>	88 dB 1W/1m
<b>Crossover:</b>	First order high-pass, 4,500 Hz
<b>Terminals:</b>	Quick-connect spring-loaded terminals
<b>Dimensions:</b>	30" H x 7.1" W x 9.5" D
	Depth includes grill*

\* Grill is removable, acoustically-transparent cloth

**WARNING:** This product may contain a chemical or chemical[s] known to the State of California to cause cancer or birth defects or other reproductive harm.

### WARRANTY COVERAGE

Dayton Audio products are warranted to be free of all defects in material and workmanship for 5 YEARS from the date of purchase from an authorized Dayton Audio dealer. This warranty and all rights provided are limited to the original owner and are non-transferable. Dayton Audio's responsibility is limited to replacement or repair as set forth in this warranty statement.

Should a product require warranty service during this period, Dayton Audio will repair or replace without charge, any part or product proving defective in material or workmanship. All warranty repairs and service must be performed by an authorized Dayton Audio technician or service facility. The use of non-authorized repair services renders this warranty null and void, and any charges relating to non-authorized repair are the responsibility of the product owner.

All expenses related to replacing or repairing a defective part or product under this warranty shall be assumed by Dayton Audio. Dayton Audio reserves the right to replace defective product with a new or factory reconditioned unit.

### WARRANTY EXCLUSIONS

1. This warranty does not cover product failure or damage resulting from misuse, abuse, neglect, accidents, alterations, standard environmental deterioration, natural disasters, or improper use and/or installation.
2. This warranty does not cover cosmetic damage due to misuse or neglect. This includes paint damage, scratches, cracks or other superficial marks related to improper use.
3. Failures arising from attempted servicing of a non-authorized Dayton Audio repair facility or technician are excluded from this warranty.

### LIMITATION OF DAMAGES

In no event shall Dayton Audio be liable for consequential damages for breach of this warranty including installation charges, excessive shipping expenses, property loss or other incidental loss. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to the buyer.

### HOW TO OBTAIN WARRANTY SERVICE

To obtain services under this warranty, the buyer shall contact Dayton Audio's authorized service provider, Parts Express, at 1-800-338-0531 x 780 to obtain a return authorization number (RA#).

The buyer must carefully pack the warranted product along with a copy of the original purchase receipt, the return authorization number (RA#), and a description to the repair facility listed below. Shipping for warranty service is dependent upon the return policy where the Dayton Audio product was purchased.

### Parts Express

Attn: Dayton Audio Warranty Repairs RA# (please write your RA# here)  
705 Pleasant Valley Drive  
Springboro, Ohio 45066

### NOTICE TO BUYER

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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